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OCEANOGRAPHY OF THE GRAND BANKS REGION AND THE LABRADOR SEA

April–June and October 1968

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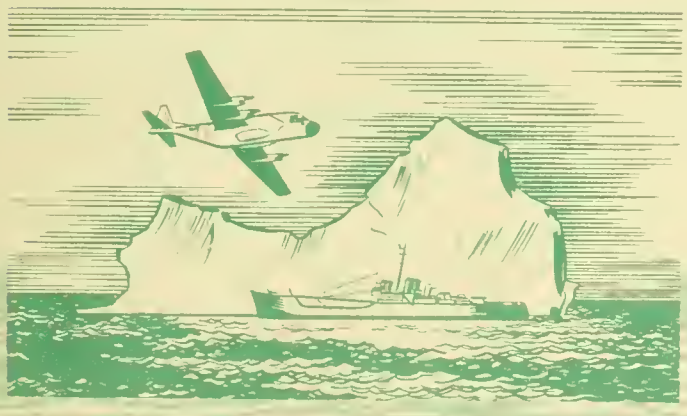

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REPORT No. 39 CG 373-39

OCEANOGRAPHY OF THE GRAND BANKS REGION AND THE LABRADOR SEA

April–June and October 1968

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ABSTRACT

In 1968, three cruises in operational support of the International Ice Patrol were conducted in April, May, and June off the Grand Banks of Newfoundland by the USCGC EVERGREEN. In addition, a section was occupied across the Labrador Sea from South Wolf Island, Labrador to Cape Farewell, Greenland by the USCGC EASTWIND in October 1968. The data obtained were used to draw temperature and salinity profiles, and to calculate surface dynamic topography and geostrophic velocity through the sections. Dynamic calculations were based on a reference level of 1000 decibars for the cruises in operational support of the International Ice Patrol and 1500 decibars for the Labrador Sea occupation. Contoured sections and the station data are presented. A sharp increase observed in the transport of the Labrador Current through Section A3 on the eastern slope of the Grand Banks is related to an initial decrease in density of the water column below 200 meters. Volume, salt, and heat transports through the Labrador Sea section are presented.

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Oceanography of the Grand Banks Region and the Labrador Sea

April–June and October 1968

HENRY S. ANDERSEN [1] and MARTIN J. MOYNIHAN [1]

INTRODUCTION

This description of the physical oceanography of the Grand Banks Region and the Labrador Sea for 1968 is based on three International Ice Patrol cruises to the Grand Banks of Newfoundland from April through June, and an occupation of a section from South Wolf Island, Labrador to Cape Farewell, Greenland in late October.

The oceanographic cruises in support of the International Ice Patrol during the spring of 1968 were conducted by USCGC EVERGREEN (WAGO 295), Commander Arthur J. Solvang, USCG, Commanding. These cruises followed the practice of the two preceding years in that surveys were conducted along three standard monitoring sections for the purpose of calibrating Soule's (1964) normal dynamic topography charts. The sections were occupied in rapid sequence during three cruises to furnish real-time analysis of the marine environment to Commander, International Ice Patrol for the prediction of iceberg movements in the Grand Banks region. Additional stations were occupied in the area southeast of the Grand Banks to locate and describe the semipermanent meander of the North Atlantic Current, which has a significant effect on the strength and location of the Labrador Current.

The first cruise left Boston, Mass., on 29 March 1968 and returned on 27 April. Three surveys of Standard Sections A2, A3 and A4, consisting of Ice Patrol stations 10041 through 10147 (for convenience, the first two digits of the station numbers are not used in the accompanying figures), were completed between 2 and 24 April 1968. During the period 17–20 April, the USCGC EVERGREEN visited Saint John's, Newfoundland.

On the second cruise, which lasted from 7 May to 4 June 1968, the USCGC EVERGREEN occupied stations 10148 through 10254, completing three occupations of Standard Sections A2 and A3 and a single occupation of Section A4. This cruise was marked by severe weather and sea conditions which forced the ship to heave-to for a total of 91 hours. It was necessary to put into Argentia, Newfoundland on 27 May 1968 to replenish the fresh water supply and avoid the heavy weather.

During the second cruise, on 11 May 1968, an oceanographic buoy system was established in the Labrador Current in 500 fathoms of water east of the Grand Banks at 45°02.5′N, 48°53′W. A current meter and temperature recorder were attached to a tautline moor from a subsurface buoy. A depth-positioning device was incorporated into the system to position the recording instruments at a depth of approximately 75 meters. The mooring system consisted of one-quarter inch "Al-u-flex" cable attached with anchor chain to a 6000 pound concrete sinker. Two mechanical time releases were connected in parallel and set to release the subsurface buoy on 24 June 1968. The location of the system was marked by a toroidal surface buoy connected to the subsurface buoy by a 500-foot pendant of ¾″ nylon line. Both buoys were equipped with lights.

After the buoy system had been moored for about one hour, the subsurface buoy surfaced unexpectedly. During the next 35 hours, the positions of the buoys were monitored and a series of 26 oceanographic casts (stations 10148 through 10173) were made adjacent to them. The surveillance of the buoys indicated they were still on station, leading to the conclusion that a malfunction of the depth-positioning device was the most probable cause of the surfacing of the subsurface buoy. The buoy system

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was left on station in an attempt to obtain useful data on the near-surface conditions, but it was never recovered because it apparently was carried away in one of the severe gales that crossed the Grand Banks during May 1968. The surface buoy washed ashore near Skull, Ireland in early January 1969. Station data acquired during the monitoring of the buoy system are presented in the Tables of Oceanographic Data (Appendix A); no analysis is presented at this time.

A third cruise was scheduled due to the prolonged iceberg threat on the Grand Banks. It included two surveys of Standard Sections A2, A3, and A4 consisting of stations 10255 through 10324, conducted between 18 June and 27 June 1968.

During a Naval Oceanographic Office ice forecast survey (24–26 October 1968) on the USCGC EASTWIND (WAGB 279), 15 stations were occupied on the Ice Patrol transect across the Labrador Sea from South Wolf Island, Labrador to Cape Farewell, Greenland.

DATA ACQUISITION AND TREATMENT

The primary sampling instrument for the 1968 Ice Patrol cruises was a Bissett-Berman Model 9006N Salinity-Temperature-Depth (STD) sensor system. The STD data were quality controlled by comparison with Nansen bottle samples obtained just above the STD sensor at the bottom of selected deep casts. Because quality control samples were obtained on only 29 stations, averaged corrections were applied to groups of STD casts where the differences between the STD data and the associated quality control samples exceeded the manufacturer's stated accuracy for the STD system ($\pm 0.02C°$; $\pm 0.03°/\text{oo}$). The quality control program was severely hampered by weather and sea conditions that jeopardized the STD sensor when attempts were made to attach the sampling bottle on the cable above it.

Data processing was accomplished at sea during the spring Ice Patrol with a PDP–8/S computer. Dynamic heights relative to 1000 decibars and corrections of the quality-control temperatures were computed utilizing programs described by O'Hagan (1964). Anomalies of dynamic height in water shallower than the reference level were computed in a manner similar to that described by Helland-Hansen (1934); the method is described in detail by Kollmeyer (1967). Current velocities at selected levels between adjacent oceanographic stations were computed using the geostrophic equation. Volume transports were computed through the solenoids formed by the intersection of the selected levels and the oceanographic casts (method described in detail by Kollmeyer, 1967).

The temperature and salinity data acquired during the October occupation of the section between South Wolf Island, Labrador and Cape Farewell, Greenland were obtained by Nansen bottle casts and processed later at the Coast Guard Oceanographic Unit in Washington, D.C., with a PDP–5 computer. The treatment of the data was similar to that accorded the three cruises in operational support of the Ice Patrol, except that dynamic heights were computed relative to 1500 decibars, and salt and heat transport were computed in addition to volume transports. The methods used to compute salt and heat transports are described in detail by Kollmeyer (1967).

The data presented in the Tables of Oceanographic Data (Appendix A) are reproduced from computer listings from the National Oceanographic Data Center (Cruise Nos. 31–8039 and 31–1353). Anomalies of dynamic height in the listings were computed by NODC, but all discussion of dynamic heights in the text and related computations in this report are based on dynamic heights computed by the Oceanographic Unit.

The oceanographic work of the first Ice Patrol cruise was directed by Lt. James M. Seabrooke, USCG, who was assisted by Lt. Charles W. Morgan, USCG. Lieutenant Morgan directed the second and third cruises assisted by Ens. Henry S. Andersen, USCGR, and Mr. Joseph Shuhy, Oceanographer. Technical assistants for the Ice Patrol season were Sonarman First Class William T. O'Brien, Aerographer's Mate First Class Peter R. San Jule, Aerographer's Mate First Class William E. Heller, Aerographer's Mate Third Class Michael L. Combs, Aerographer's Mate Third Class Rex Allen C. Doescher, Sonarman Third Class Kenneth L. Mitchell, Aeoragrapher's Mate Third Class Marshall R. Patmos, Aerographer's Mate Third Class Kenneth D. Thoeni, and Sonarman Third Class Calvin C. Wood.

STANDARD SECTION SURVEYS ON THE GRAND BANKS

The general surface circulation south and east of the Grand Banks of Newfoundland during the spring can be inferred from the monthly average dynamic topography of the sea surface relative to the 1000-decibar surface during the months of April, May, and June (figs. 1, 2, and 3; Soule, 1964). These charts are based on 22 years of data with equal weight being given to each year represented. Broken-line contours have been used in areas where the data base is 6 years or less. The charts show the Labrador Current as a southward flow positioned between the 100-fathom and 1000-fathom contours on the eastern slope of the Grand Banks. To the east of the Labrador Current is a dynamic trough region of water of low specific volume resulting from the mixing of Labrador Current water and North Atlantic Current water. The dynamic trough is a region of current reversal, with the Labrador Current flowing south on the western side of the trough and the North Atlantic Current flowing north on the eastern side of the trough. Along the southern and southeastern edges of the contoured region, an intrusion of the North Atlantic Current is evidenced by a pair of meanders at about 41°N 50°W and 43°N 46°W.

During the 1968 Ice Patrol season, the practice of serially reoccupying three standard sections (figs. 4–11) rather than conducting a broad areal survey was continued. This practice was instituted in 1966 (Wolford, 1969) because experience had shown that large, short-term (1–2 weeks) fluctuations occurred in the volume flow of the Labrador Current, and therefore broad areal surveys covering a time span comparable to the period of the short-term fluctuations would not be sufficiently synoptic. It was hoped that rapid occupations of the three standard sections would provide synoptic information which would be adequate, when used with the average monthly surface dynamic topographies, to draw conclusions about the circulation in the Grand Banks region. While the rapid occupation of three standard sections improved synopticity, the increased distance between sections inherent in this method made contouring the dynamic topography more uncertain. Accordingly, the charts of dynamic topography (figs. 4–11) have been contoured between standard sections only when additional stations were occupied between sections A3 and A4 (three times during the season) to obtain better definition of a meander in the North Atlantic Current.

During the first survey of the season, the meander of the North Atlantic Current was farther to the northwest than usual. This was readily apparent from comparison of the position of the 971.1 dynamic-meter contour as observed during the 2–10 April survey (fig. 4) with the position of this contour on the April normal dynamic topography chart (fig. 1). Additional evidence of this excursion of the meander to the northwest exists in the high dynamic heights found immediately east of the trough during the first occupation of A3 (fig. 34) and the incursion of water warmer than 12°C and saltier than 35.5°/₀₀ which extended westward in the upper 200 meters to about 48°30′W (fig. 13). During the month of April, the meander, moved seaward from the Grand Banks to a more offshore position where it remained the rest of the Ice Patrol season.

In April a portion of the Labrador Current (temperature <0°C) was observed to flow westward around the Tail-of-the-Banks during every occupation of A4 (figs. 14, 17, and 20). No flow of Labrador Current Water around the Tail-of-the-Banks was detected during the remainder of the Ice Patrol season (May–June).

During four of the occupations of A3 (figs. 13, 16, 19, 27), horizontal gradients of temperature sufficiently strong to be considered frontal were observed at or near the sea surface. Whenever such strong horizontal temperature gradients were encountered, the lowest value in dynamic height was associated with the station nearest the front on the cold side. (figs. 34 and 35).

TIME-VARIATION OF THE LABRADOR CURRENT

The time-variation of the Labrador Current has been a subject of considerable interest to the International Ice Patrol because this current is the chief agency for transporting icebergs to the Grand Banks. Because most of the oceanographic survey effort of the Ice Patrol has been expended on the eastern slopes of the Grand Banks during April through June, the months when the Iceberg hazard on the Grand Banks is greatest, the annual cycle of the

Labrador Current is poorly defined. The seasonal characteristics of the Labrador Current are further obscured by its interaction with the North Atlantic Current and with the region's bathymetry.

With these difficulties in mind, the data acquired during the 1968 Ice Patrol were examined for time-variation in the flow of the Labrador Current. For the purposes of this report, the Labrador Current is defined to be the total southward flow through the east-west leg of Section A2, the total southward flow west of the dynamic trough through Section A3, and the total westward flow north of the North Atlantic Current through Section A4 (fig. 4). Particular attention was focused on Section A3 because this section transects the Labrador Current, the dynamic trough east of the Labrador Current, and the North Atlantic Current. In addition, the oceanographic conditions along this section give an indication of the probability of icebergs reaching the shipping lanes near the Tail-of-the-Banks.

To determine whether variation in the Labrador Current during the 1968 season was due primarily to changes in dynamic height on the Grand Banks, changes in the dynamic height in the trough between the Labrador Current and the North Atlantic Current, or a combination of these factors, profiles of sea-surface dynamic height along Section A3 (figs. 34–36) were plotted. In addition, dynamic heights were plotted versus time for the station at the eastern extremity of the steep gradient of dynamic height above the slope of the Grand Banks (the trough station), the next station immediately to the west (the adjacent station), and the westernmost station occupied during each transit of A3 (fig. 37). It was recognized that relative distances between these stations varied from one occupation of Section A3 to the next, but this spatial variation was not sufficient to bias the observed trend of dynamic heights.

Variation in the transport of the Labrador Current during the 1968 Ice Patrol season was due to changes in the dynamic heights of both the trough station and the adjacent station. The great increase in transport observed beginning 24–25 May and the sudden decrease in transport observed during 25–26 June (fig. 43) were due primarily to larger changes in dynamic height at the adjacent station than at the trough station.

During April both the trough station and the adjacent station underwent an increase in surface dynamic height that caused only a slight change in the gradient of surface dynamic height between the two stations, but in May, the relative difference in dynamic height between the two stations increased sharply. The survey of A3 during 18–19 May disclosed a minimum surface dynamic height for both the trough station and the adjacent station. By the 24–25 May occupation of A3, the surface dynamic height of the adjacent station had increased dramatically, and the greatest difference, during the season, in dynamic height between the trough station and the adjacent station was encountered. The surface dynamic height of the adjacent station then remained at about the same level while the surface dynamic height of the trough station showed a gradual increase through the 20 June occupation of A3, after which the dynamic heights of both stations fell precipitously to the lowest observed levels of the season (25–26 June occupation of A3).

Level for level, the trough stations possessed water slightly warmer and slightly saltier (fig. 38) than the stations west of them. The dynamic heights of the trough stations and the adjacent stations were observed to diverge from the reference level (1000 meters) to the sea surface (fig. 39), with the divergence being especially large from 24 May until 20 June (stations 224 and 225, 247 and 248, and 271 and 272). The rate of divergence shows a significant increase between 300 meters and the surface which is attributed to the presence of Labrador Current Water west of the dynamic trough. Below 300 meters the more gradual divergence of the dynamic heights of the trough stations and the adjacent stations is an indication of the effective mixing of Labrador Current Water and North Atlantic Current Water occurring on the eastern slopes of the Grand Banks. This is not unexpected in view of the great horizontal and vertical shears in current velocity observed in this region.

To determine whether the Labrador Current in the Grand Banks area has the characteristics of a spring freshet, variation along section A3 of temperature-salinity characteristics and cross-stream dynamic height were

compared. In exploring the concept of a freshet, attention must be given not only to the possibility of water from melting snow and ice being a component of the Labrador Current transport, but also to the possible accelerating effect of meltwater accumulated along the Labrador and Newfoundland coasts.

That meltwater from snow and ice along the Labrador and Newfoundland coasts is a significant component of the total transport of the Labrador Current appears unlikely. The strongly negative temperatures and substantial volume of the cold current observed on the eastern slopes of the Grand Banks testify to a high-latitude origin, and the greater velocities in the Labrador Current actually occur to the east of the cold core in waters that are warmer and more saline.

Remaining to be examined is the possibility of accumulated meltwater along the Labrador and Newfoundland coasts providing a horizontal pressure gradient sufficient to accelerate the Labrador Current. This hypothesis has been treated favorably by previous investigators of this region. Kollmeyer et al. (1966) stated that an increase in dynamic height on the Grand Banks "could be caused by the influx of arctic and sub-arctic melt water [sic] from the north" and that "the increase in elevation of water on the Banks and slope, with a resulting water volume flow increase, causes entrainment of the existing water in the area. This slope water would then become colder with the arrival from the north of greater volumes of cold water to fulfill the mass continuity requirements being satisfied by entrainment."

Along Section A3 west of the trough, the dramatic increase in surface dynamic height between the surveys of 18 and 24–25 May 1968 and its abrupt decline between the surveys of 20 and 26 June 1968 were compared with variation in the temperature-salinity characteristics of the adjacent station. These comparisons indicated that during 1968 the greatest variation in the volume flow of the Labrador Current was accompanied by variation in salinity below 200 meters at the adjacent station. The increase in dynamic height between the 18 May and 24 May occupations of the adjacent stations (stations 190 and 224) occurred even though the water in the depth interval of 0 to 200 meters was denser during the 24 May occupation (fig. 40) as a result of an increase in salinity. Thus, during the 1968 Ice Patrol season, the greatest difference in dynamic height between the trough station and the station immediately west of the trough occurred while the waters of the upper 200 meters of the adjacent station were becoming more saline—hardly conditions to be associated with an influx of meltwater in the surface layers of the Grand Banks. Instead, an influx of fresher, warmer, and less dense water below 200 meters was responsible for the increase in dynamic height.

The abrupt decrease in the dynamic height of the station immediately west of the trough between the 20 June (station 271) and 26 June (station 315) occupations was due to the presence of denser water at station 315 at all levels (fig. 41). Except at the sea surface, this increase in density was caused by an increase in salinity. The surface salinity at station 271 differs only slightly ($0.08°/_{oo}$) from the salinity of colder water ($-1.04°C$) at 30 meters, suggesting that the surface water may be water of nearly the same origin as the relatively fresh, negative temperature water between 20 and 90 meters.

A plot of the volume transport of the cold core ($<2°C$, $<34°/_{oo}$ of the Labrador Current and of the total Labrador Current for Section A3 and the east-west leg of Section A2 (fig. 43) indicates that the fluctuations in transport on both sections are in good agreement. Because the magnitude of the fluctuations in the total transport of the Labrador Current exceeds the magnitude of the fluctuations in the cold-core transport, variation in the total flow of the Labrador Current along the eastern slope of the Grand Banks does not appear to be due solely to variation in the advection of water from more northern latitudes.

The causes of the sudden increase in the total transport of the Labrador Current in May and its abrupt decrease in late June may now be speculated upon. During May an influx of fresher, warmer water below 200 meters at station 224 was responsible for a sharp increase (fig. 37) in the gradient of dynamic height between the trough station and the adjacent station, deepening the Labrador Current and increasing the transport of the cold core (fig. 43). The increase in dynamic height of the adjacent station was then sustained by a

general decrease in density of the entire water column over the eastern slopes of the Grand Banks resulting from a general freshening due to increased transport in the cold core of the Labrador Current and mixing of the water of the cold core with surrounding waters. During the 20 June occupation of the station immediately west of the trough (station 271), the cold core was most pronounced ($<1.0°C$, $<33.55°/_{oo}$ between 30 and 90 meters) and the water column was generally fresher down to about 350 meters than during the 24 May occupation (fig. 42). Also, from 18 May through 20 June a gradual increase in the dynamic height of the trough station was found (fig. 37). This may be attributed to a decrease in density of the water column brought about by lateral mixing of the cold core or to a recirculation to the northeast of less dense slope water (fig. 3).

The dynamic heights of the trough station and adjacent station during the 26 June occupation of A3 were substantially less than previous values (fig. 37). The decline was greatest for the adjacent station, resulting in a decrease in cross-stream gradient of dynamic height and a sharp reduction in the transport of the cold core and the total transport of the Labrador Current (fig. 43). This decrease in dynamic height between the 20 and 26 June occupations of the adjacent station (stations 271 and 315) was primarily due to an increase in the density of the water below 100 meters, resulting from higher salinity in the water column (fig. 41). Once this influx of more saline water began, the drop in surface dynamic heights was accelerated by a reduction in the transport of the cold core, causing a decrease in the creation of lighter surface waters through mixing with the cold core, and a further decrease in the surface dynamic height.

It appears that the variation in the transport of the Labrador Current observed during May and June 1968 was caused by a sequence of events beginning with a change in the density of the water column below 200 meters west of the dynamic trough. During May a decrease in the density below 200 meters at the adjacent station increased the surface dynamic height and the transport of the less saline, negative-temperature water in the upper 100 meters, causing an increase in the rate of mixing and rate of formation of lighter water in the surface layers. This increase in the rate of formation of lighter surface water west of the dynamic trough then reinforced the increase in surface dynamic height initiated by the decrease in the density of the water column below 200 meters, further strengthening the transport of the Labrador Current. Morgan (1969) attributed an intensification of the Labrador Current along the eastern slopes of the Grand Banks in May 1967 to unusually low density water west of the dynamic trough below 264 meters. Kollmeyer et al. (1966) recognized the influence of the advection of cold water from the north upon dynamic heights on the Grand Banks, but their hypothesis that accumulated arctic and subarctic meltwater was the direct cause of an initial increase in dynamic height on the Grand Banks does not apply to the sudden increase in dynamic height found west of the trough in May 1968. In June 1968 an increase in the salinity of the water column below 100 meters west of the dynamic trough resulted in a decrease in the cross-stream gradient of dynamic height. The accompanying deceleration of the Labrador Current reduced the rate of formation of lighter water in the surface layers, resulting in a further decrease in the cross-stream gradient of dynamic height and the transport of the current.

While it must be emphasized that the oceanographical and meterological conditions in the Grand Banks region are so variable that a hypothesis adequately explaining the observed conditions during one Ice Patrol season may be inadequate for other seasons, nevertheless the results of the 1968 Ice Patrol suggest that increased attention should be given to variation in the water characteristics in the deeper layers of the water column. The variation in transport of the upper 200 meters of the Labrador Current appears to be a manifestation of deep, underlying changes in the water column.

LABRADOR SEA SECTION

The Labrador Current showed its characteristic temperature distribution on the section from South Wolf Island, Labrador to Cape Farewell, Greenland with a negative temperature core over the Labrador Shelf, a steep horizontal temperature gradient over the continental slope and relatively warmer water

offshore (figs. 44 and 45). The primary southward flow of the cold core of the Labrador Current ($<2.0°C$, $<34.3°/_{oo}$) was found between stations 42 and 43 with a calculated velocity of 18 cm/sec and a minimum temperature of $-1.0°C$. Southward flow of warmer offshore water of the Labrador Current was traced out to station 45. The total southward transport of the Labrador Current above a 1500 decibar reference level was $4.81 \times 10^6 m^3/sec$. The total heat and salt transports southward were $12.09 \times 10^6 C°m^3/sec$ and $157.72 \times 10^6 gm/sec$, respectively.

At the Greenland side of this section a northward flow was found between stations 51 and 54. However, the colder ($<1°C$) inshore component of the West Greenland Current was found only at the last station, 25 miles off the coast. The warmer Irminger Sea component ($5.5°C$, $34.95°/_{oo}$) had a peak velocity of 11 cm/sec. The northward transport of this water was $5.71 \times 10^6 m^3/sec$ with heat and salt transports of $28.78 \times 10^6 C°m^3/sec$ and $197.02 \times 10^6 gm/sec$, respectively. The total northward transport of West Greenland Current water through this section above a 1500 decibar reference level was $8.86 \times 10^6 m^3/sec$ with a total heat transport of $38.90 \times 10^6 C°m^3/sec$. The net transports across this entire section above the 1500 decibar level were $3.16 \times 10^6 m^3/sec$ and $22.27 \times 10^6 C°m^3/sec$ northwestward.

Although the Labrador Sea section has been occupied 29 times since 1928, this occupation is the latest during any year and occurred after the cooling season began. This fact and the incomplete transit of the West Greenland Current make comparison with previous occupations of this section questionable.

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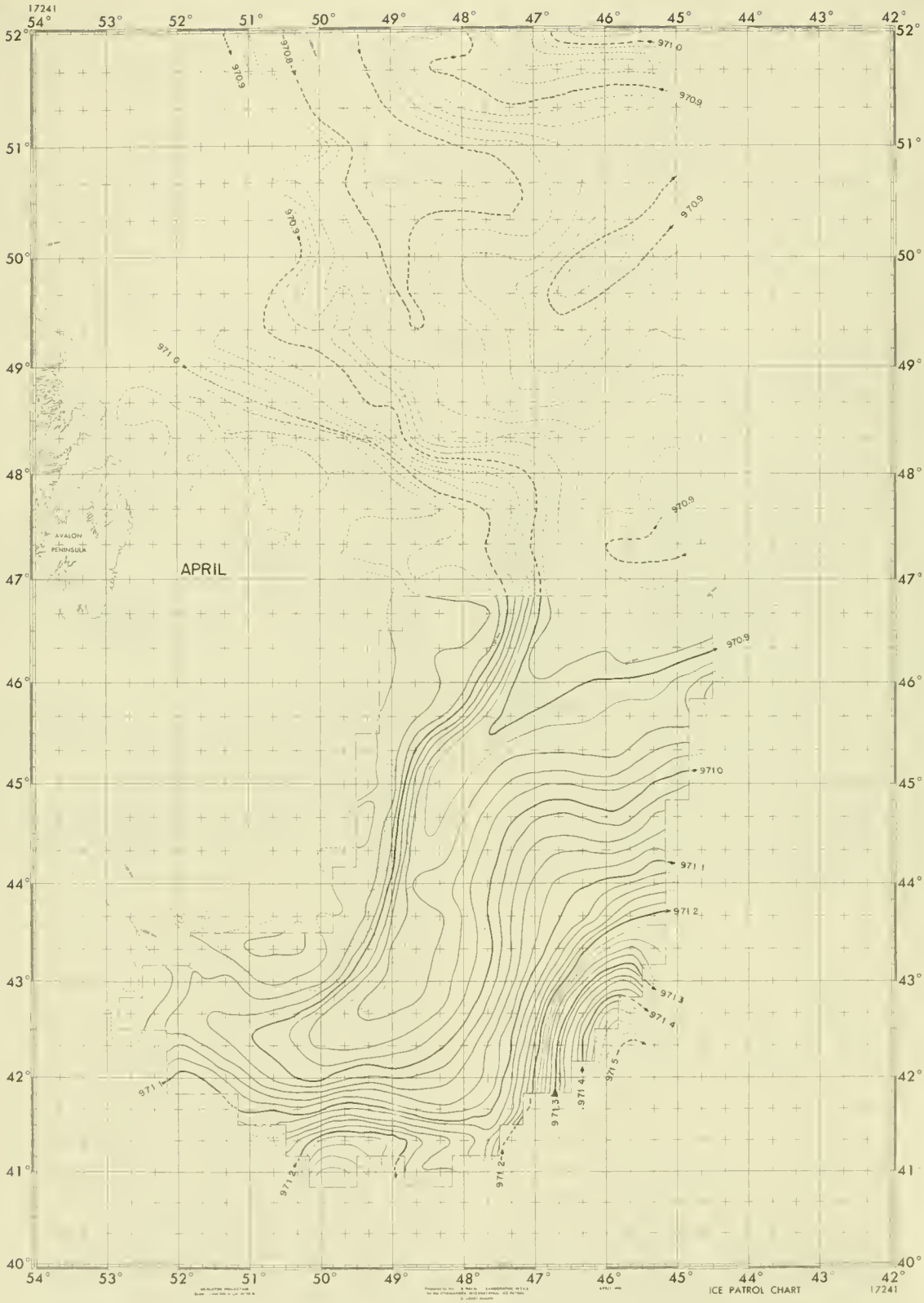

Figure 1. Normal dynamic topography (dynamic-meters) of sea surface relative to 1000 decibars for April (Soule, 1964).

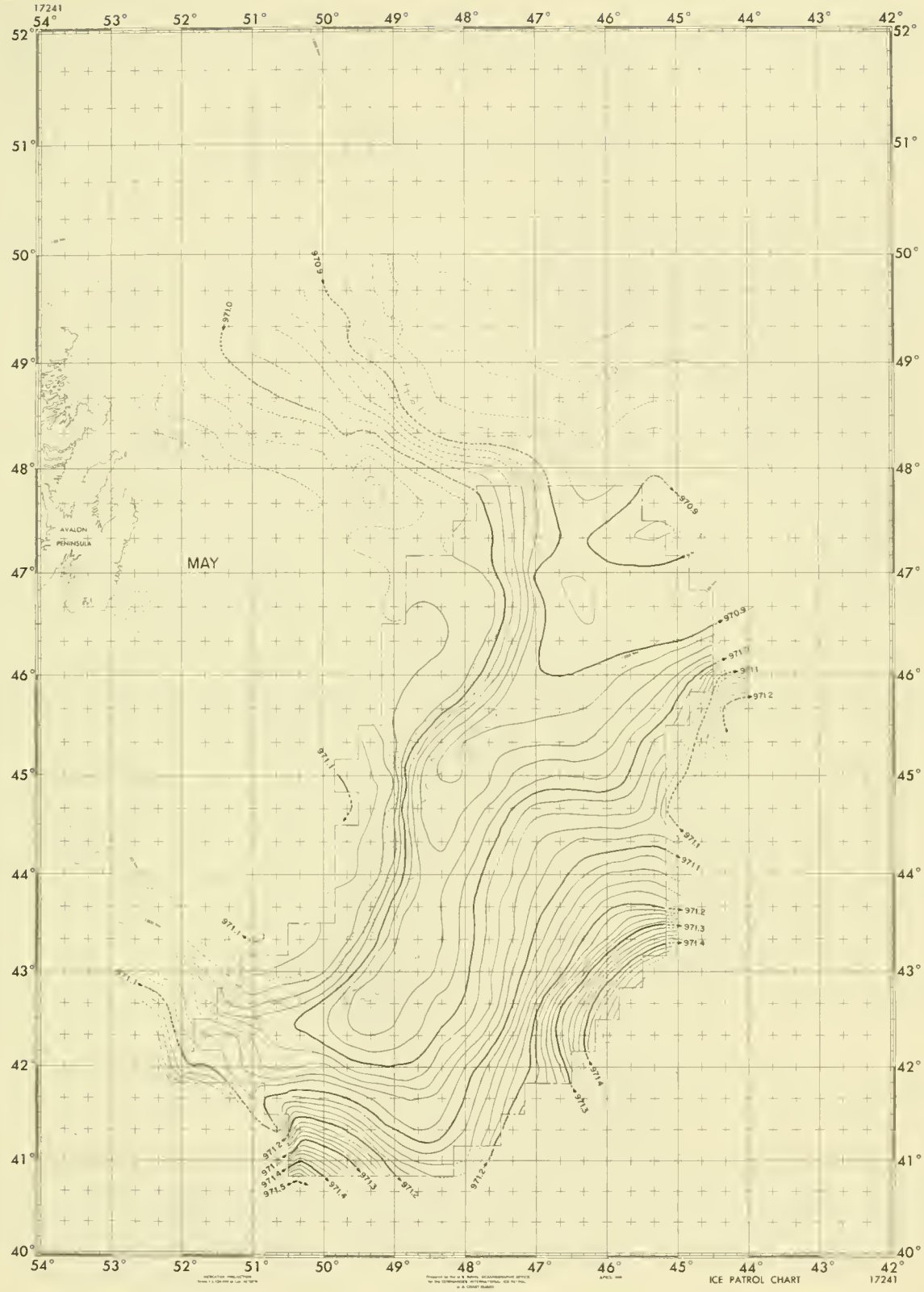

Figure 2. Normal dynamic topography (dynamic meters) of sea surface relative to 1000 decibars for May (Soule, 1964).

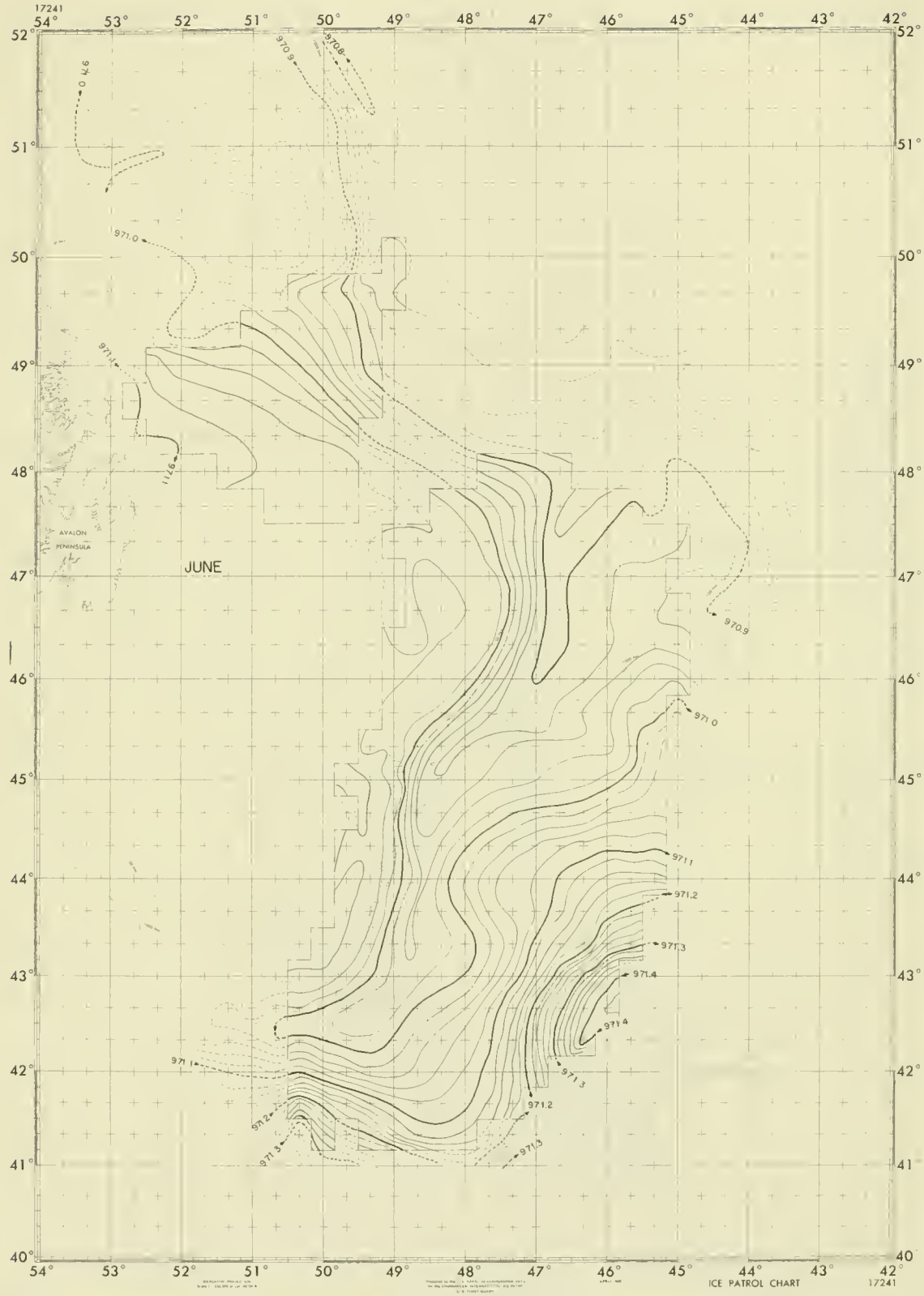

Figure 3. Normal dynamic topography (dynamic meters) of sea surface relative to 1000 decibars for June (Soule, 1964).

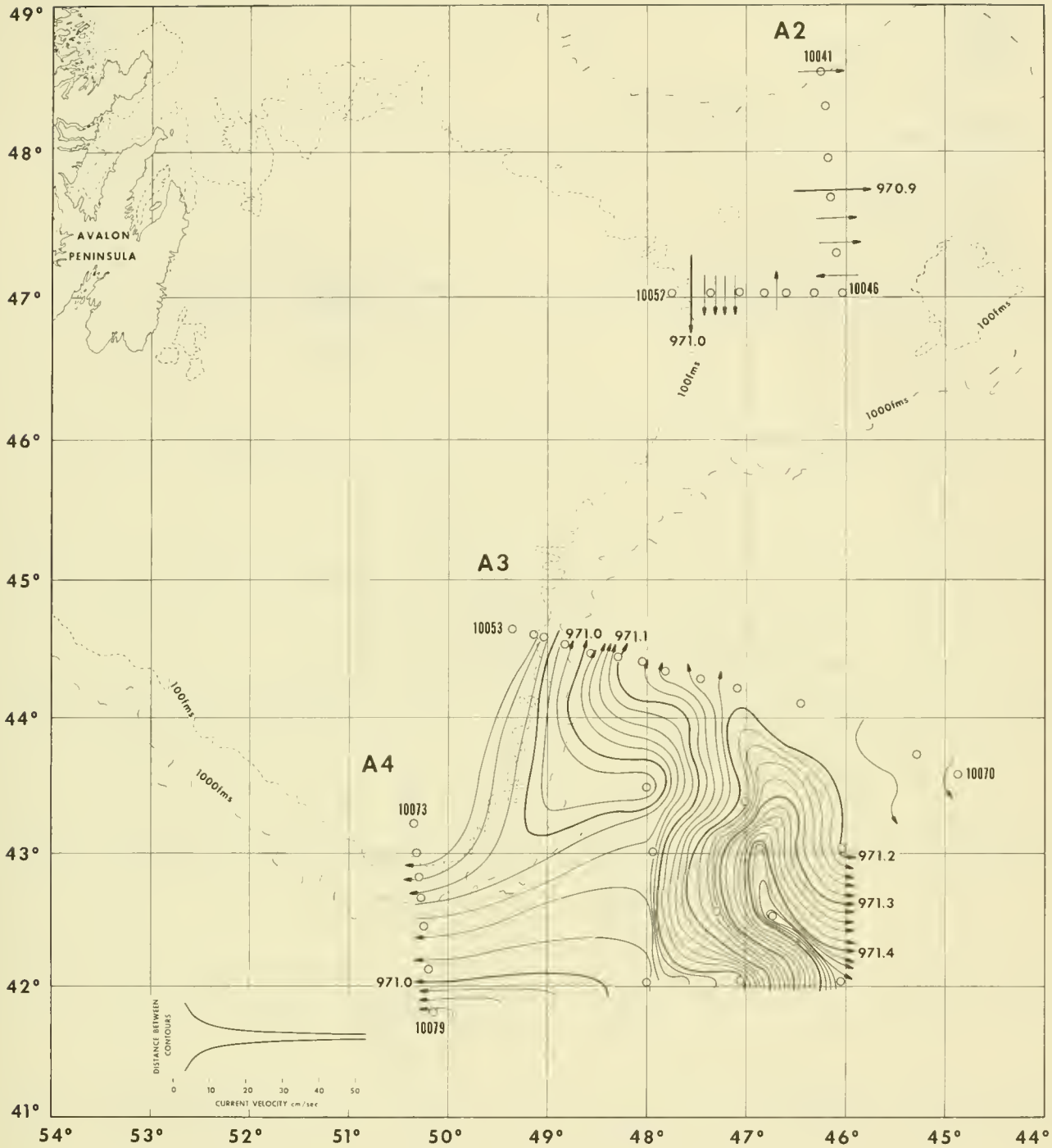

Figure 4. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 2–10 April 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

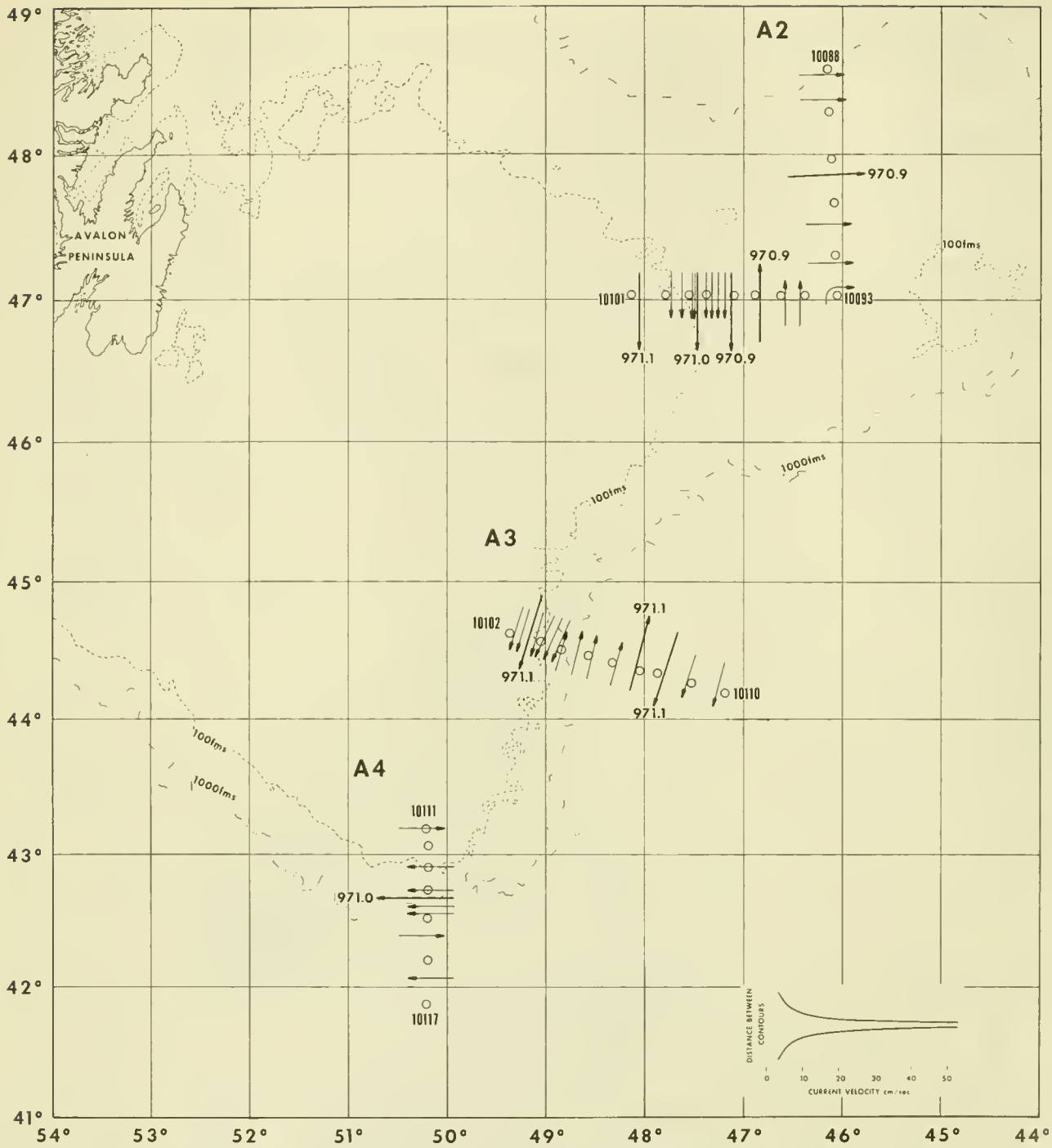

Figure 5. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 12–15 April 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

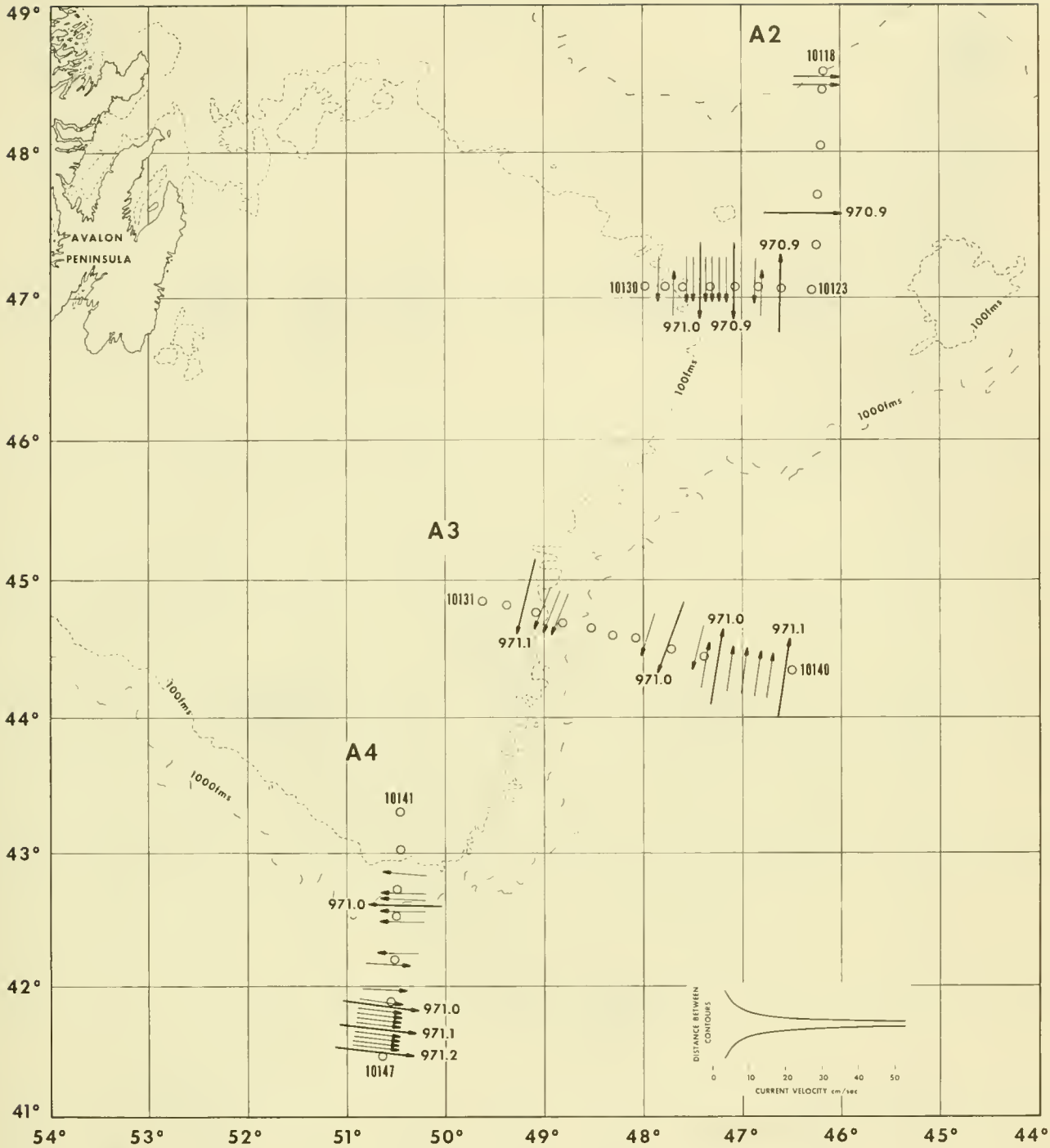

Figure 6. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 16–24 April 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

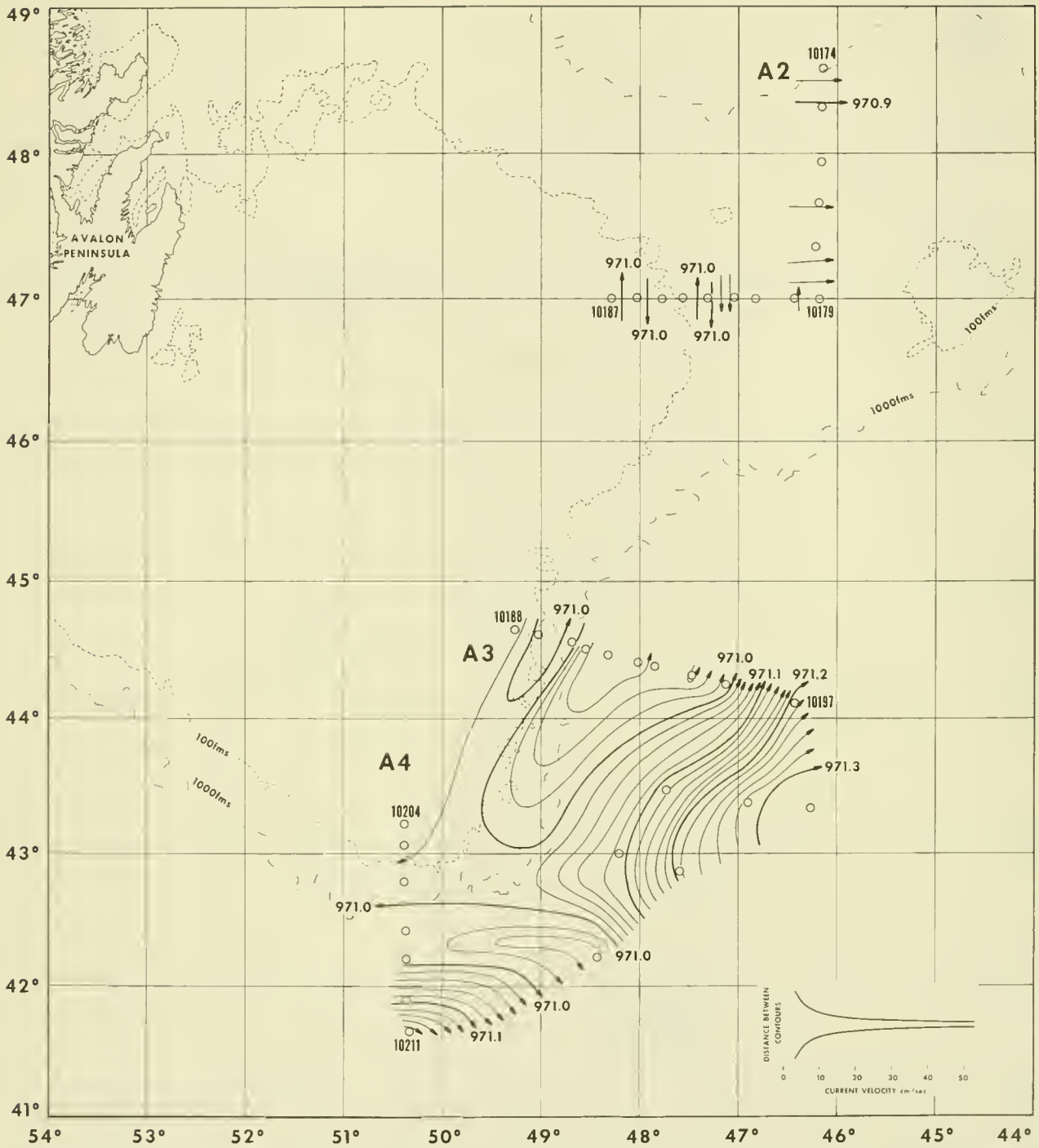

Figure 7. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 14–21 May 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

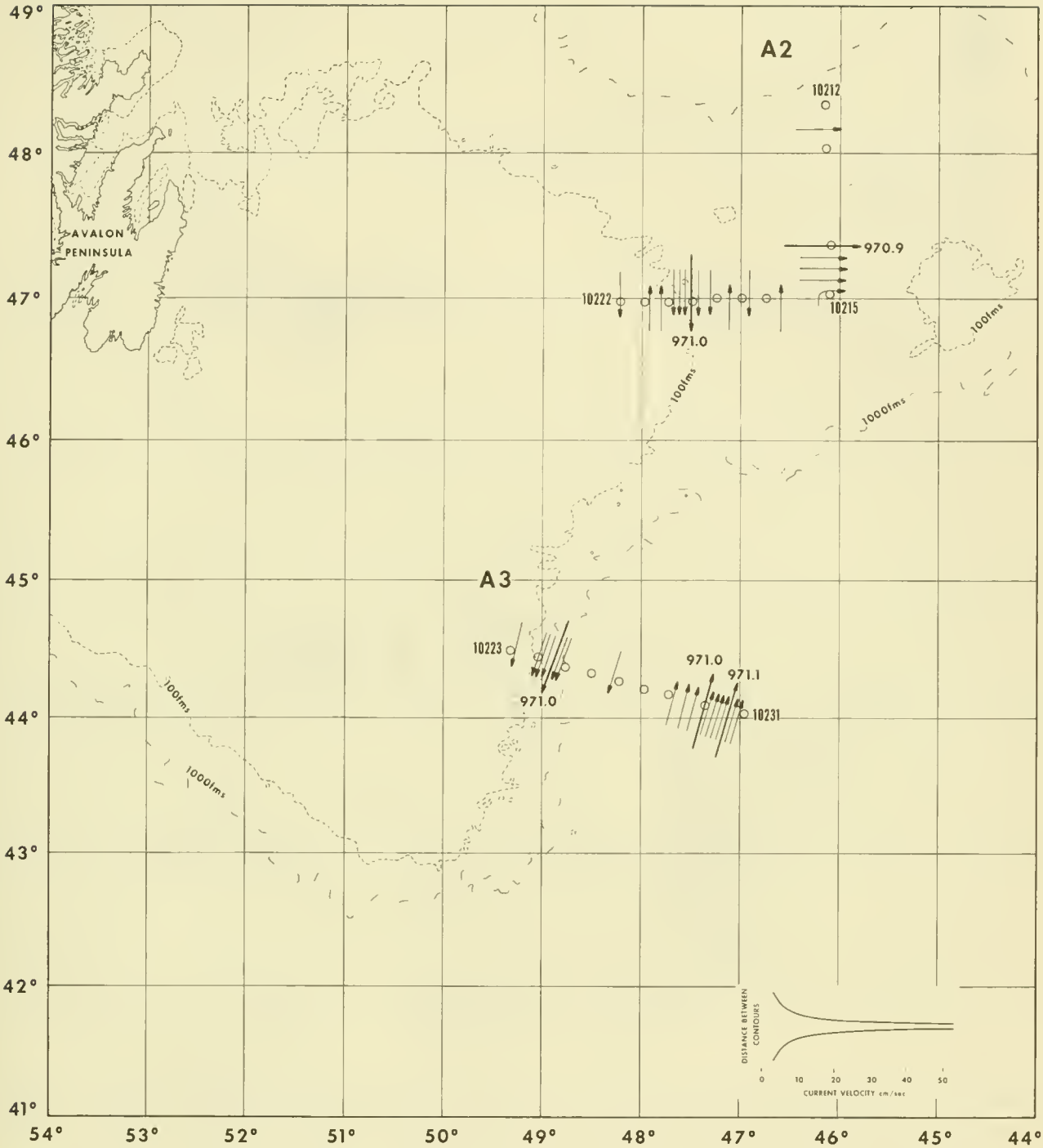

Figure 8. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 23–25 May 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

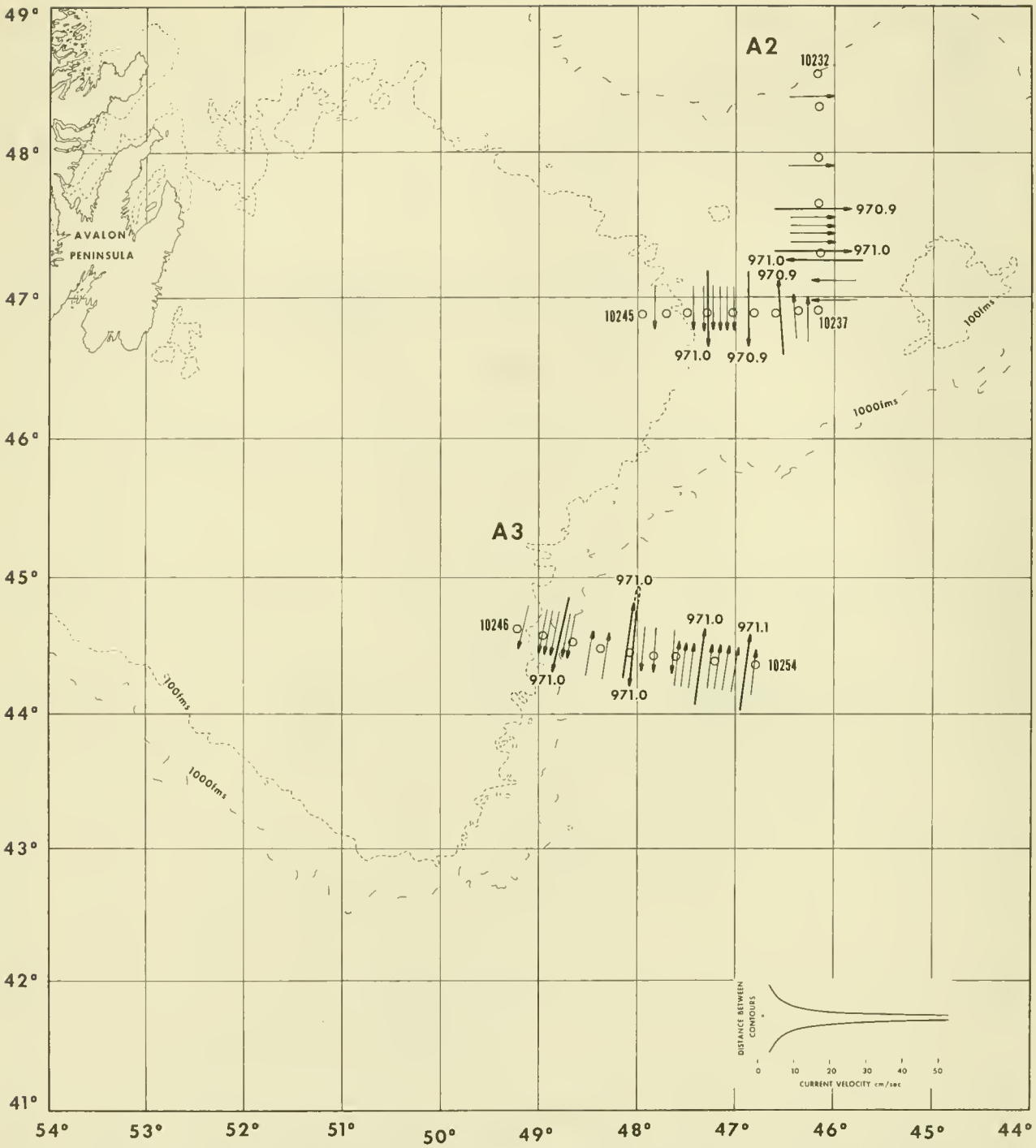

Figure 9. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 30 May–1 June 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

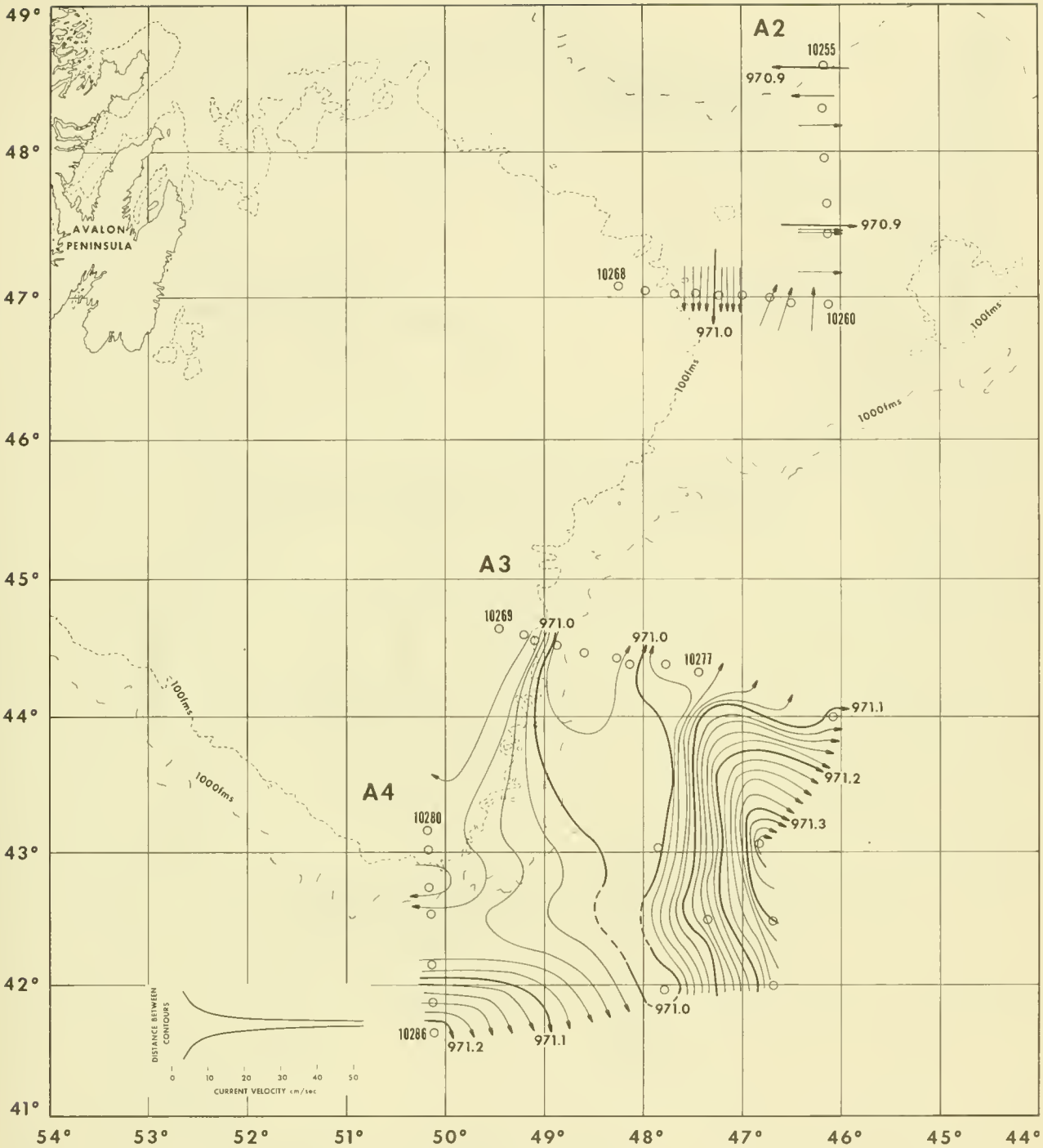

Figure 10. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 18–23 June 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

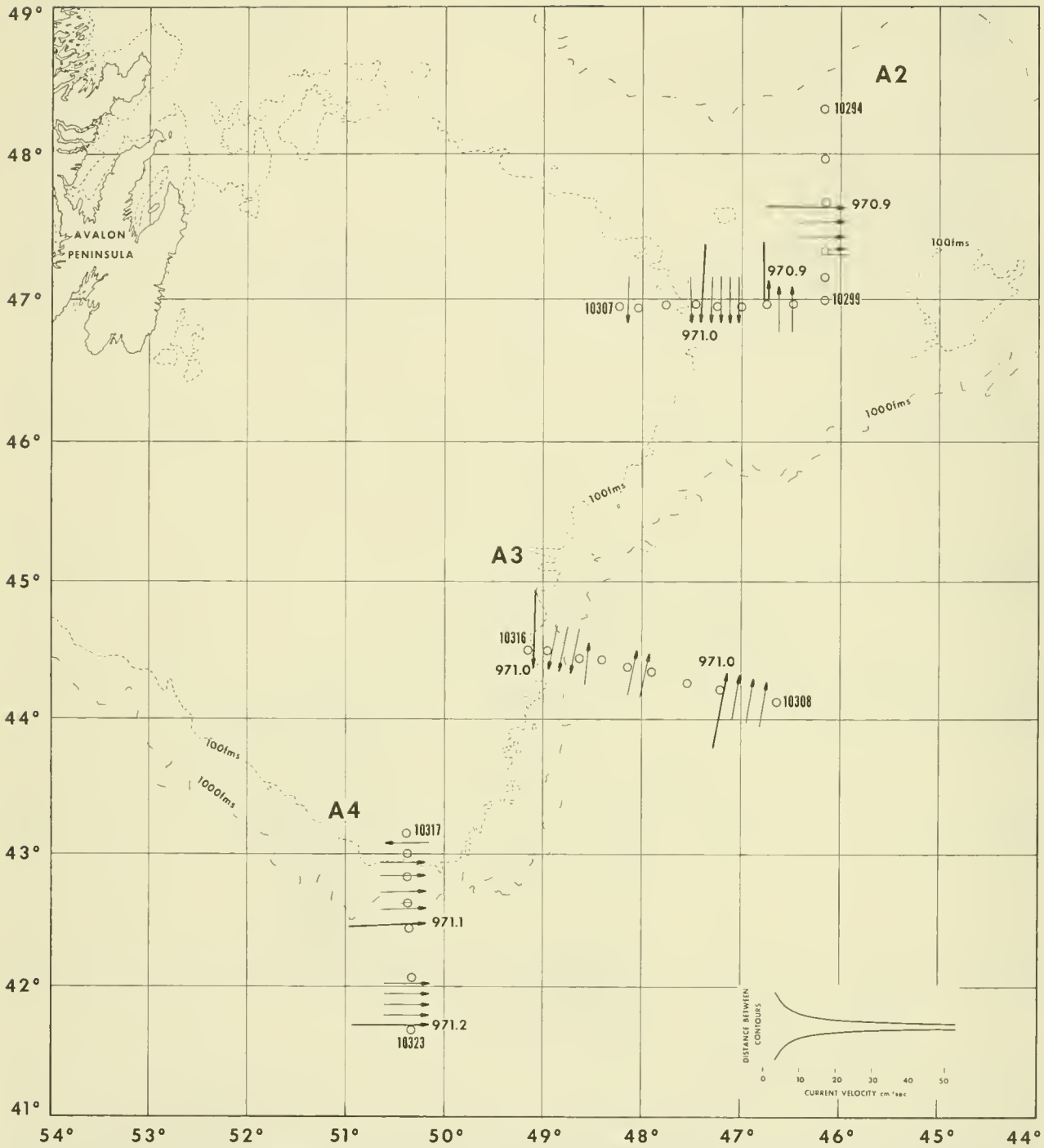

Figure 11. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 24–27 June 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

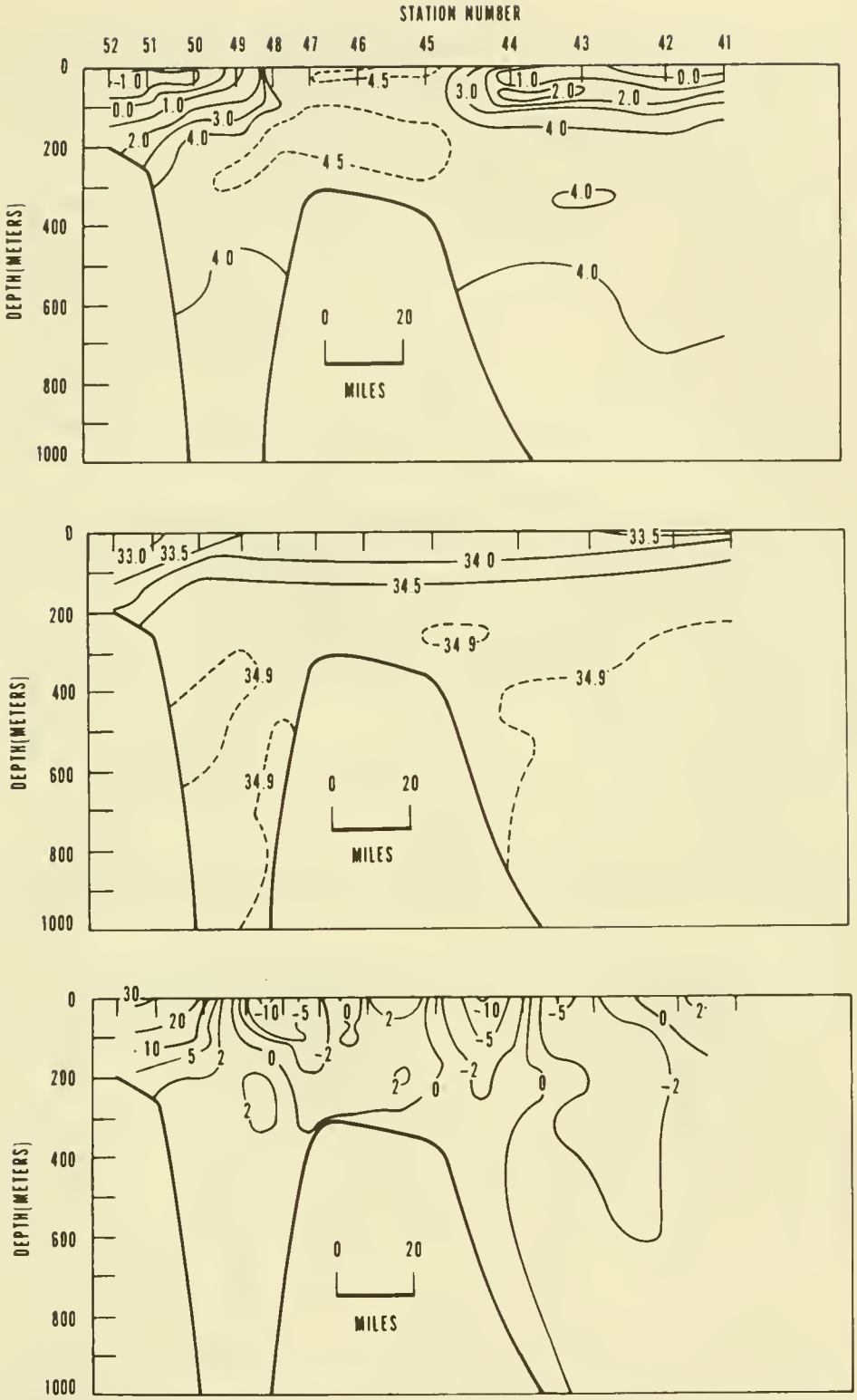

Figure 12. Temperature (°C), salinity (°/₀₀) and current velocity (cm/sec) profiles for Section A2, 2–3 April 1968. Section A2 possesses a right-angle configuration with station 46 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow.

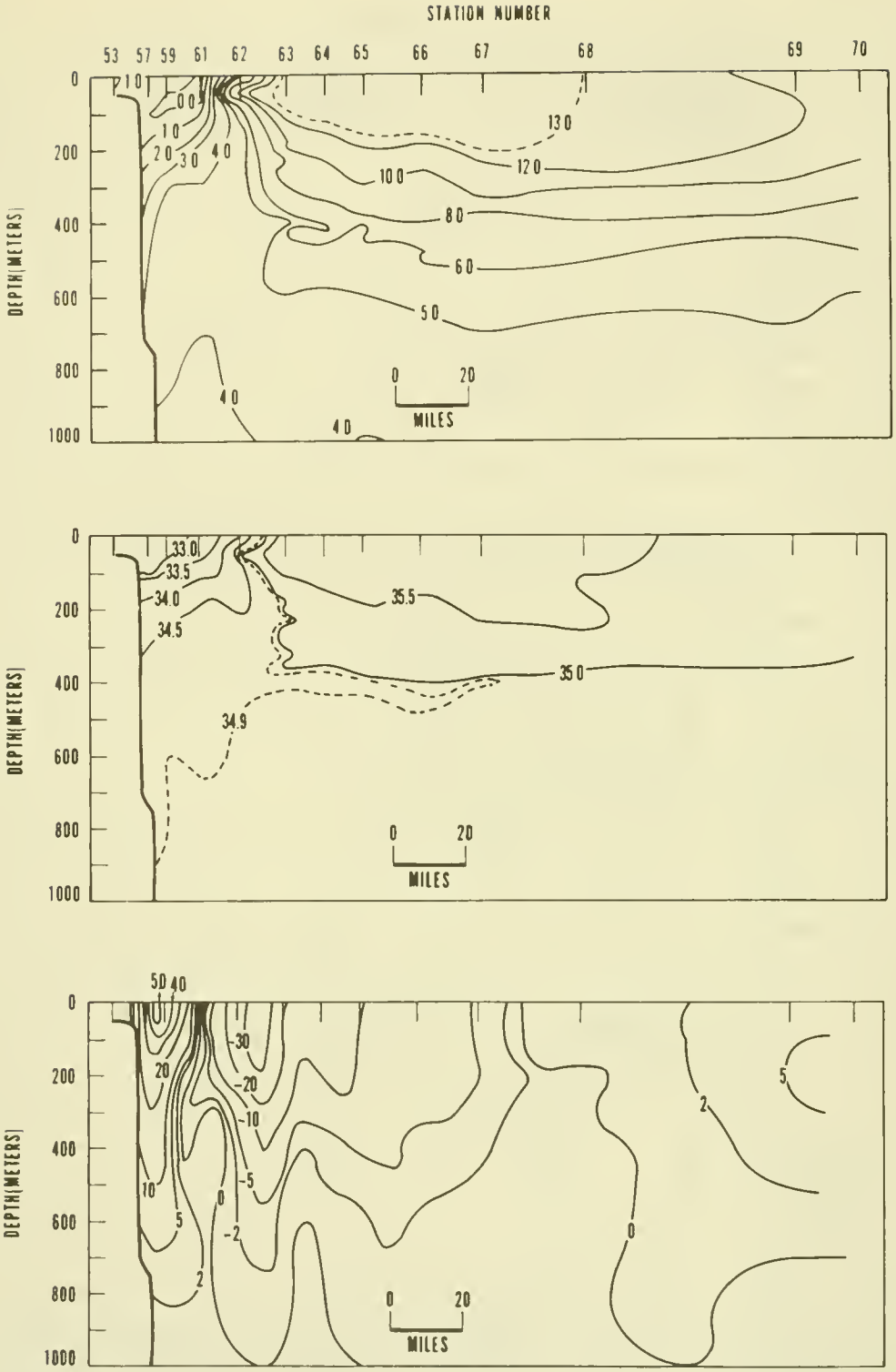

Figure 13. Temperature (°C), salinity (°/₀₀) and current velocity (cm/sec) profiles for Section A3, 4–6 April 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

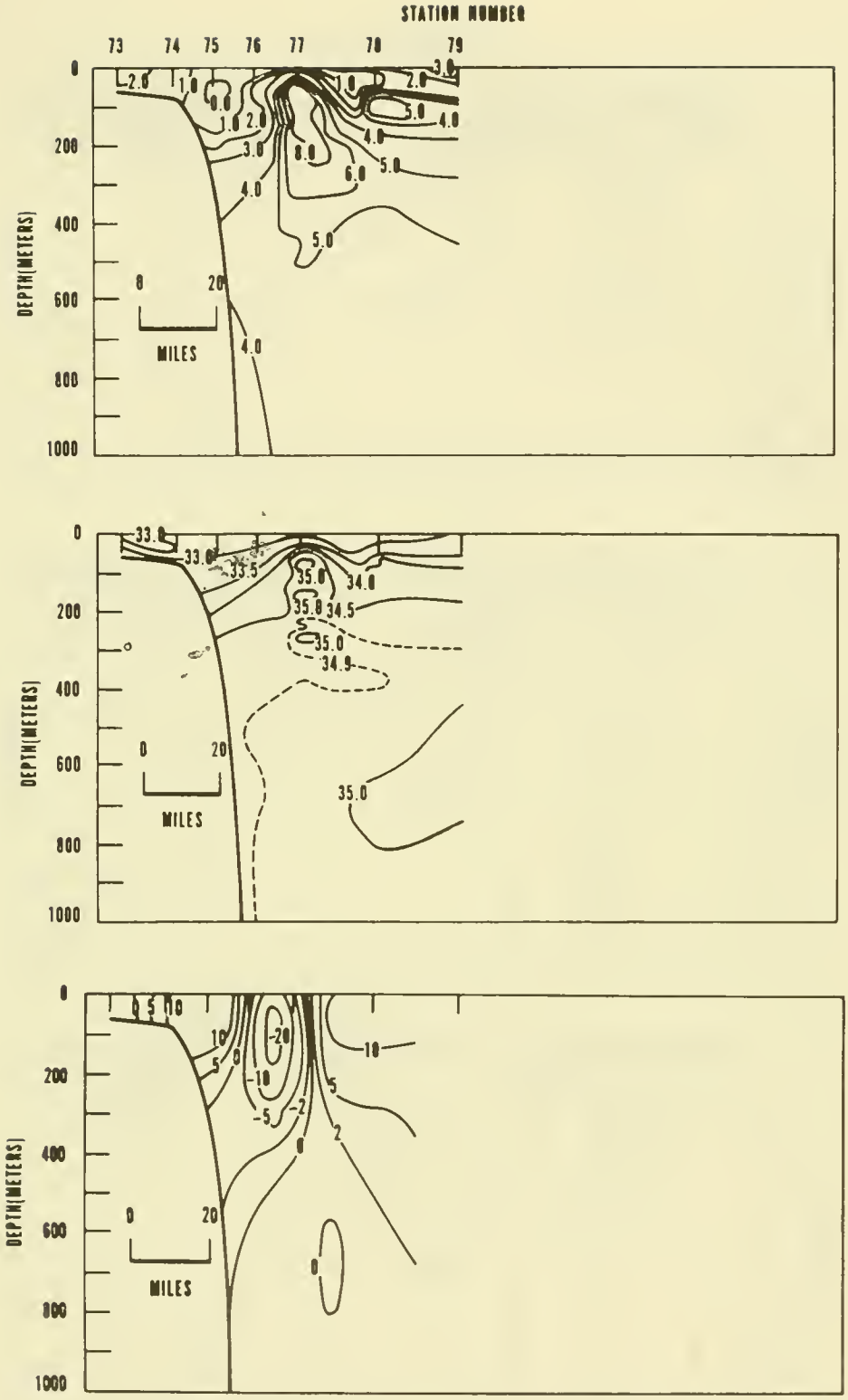

Figure 14. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A4, 8 April 1968. On the velocity profile positive values denote westward flow, negative values denote eastward flow.

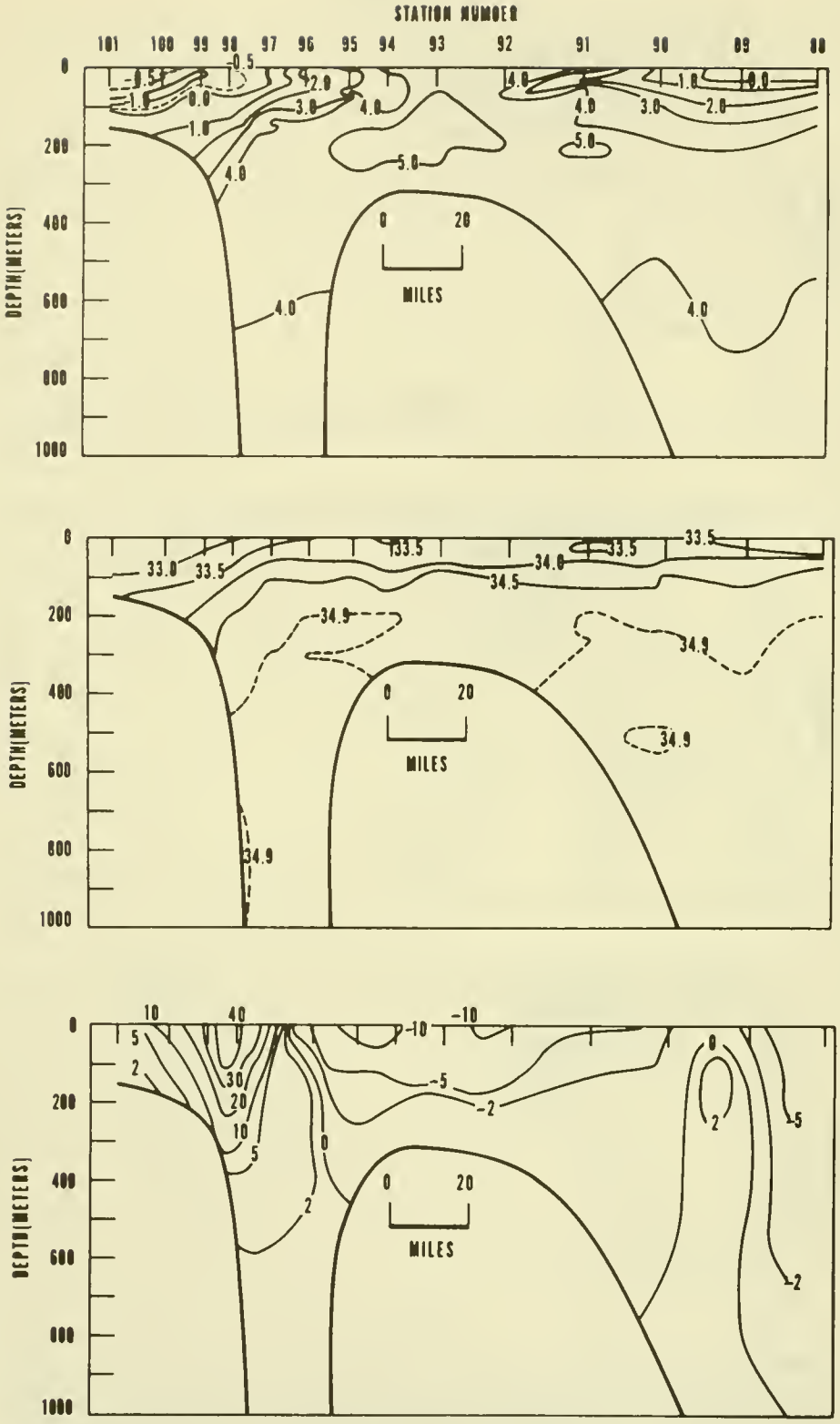

Figure 15. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A2, 12–13 April 1968. Section A2 possesses a right-angle configuration with station 93 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow.

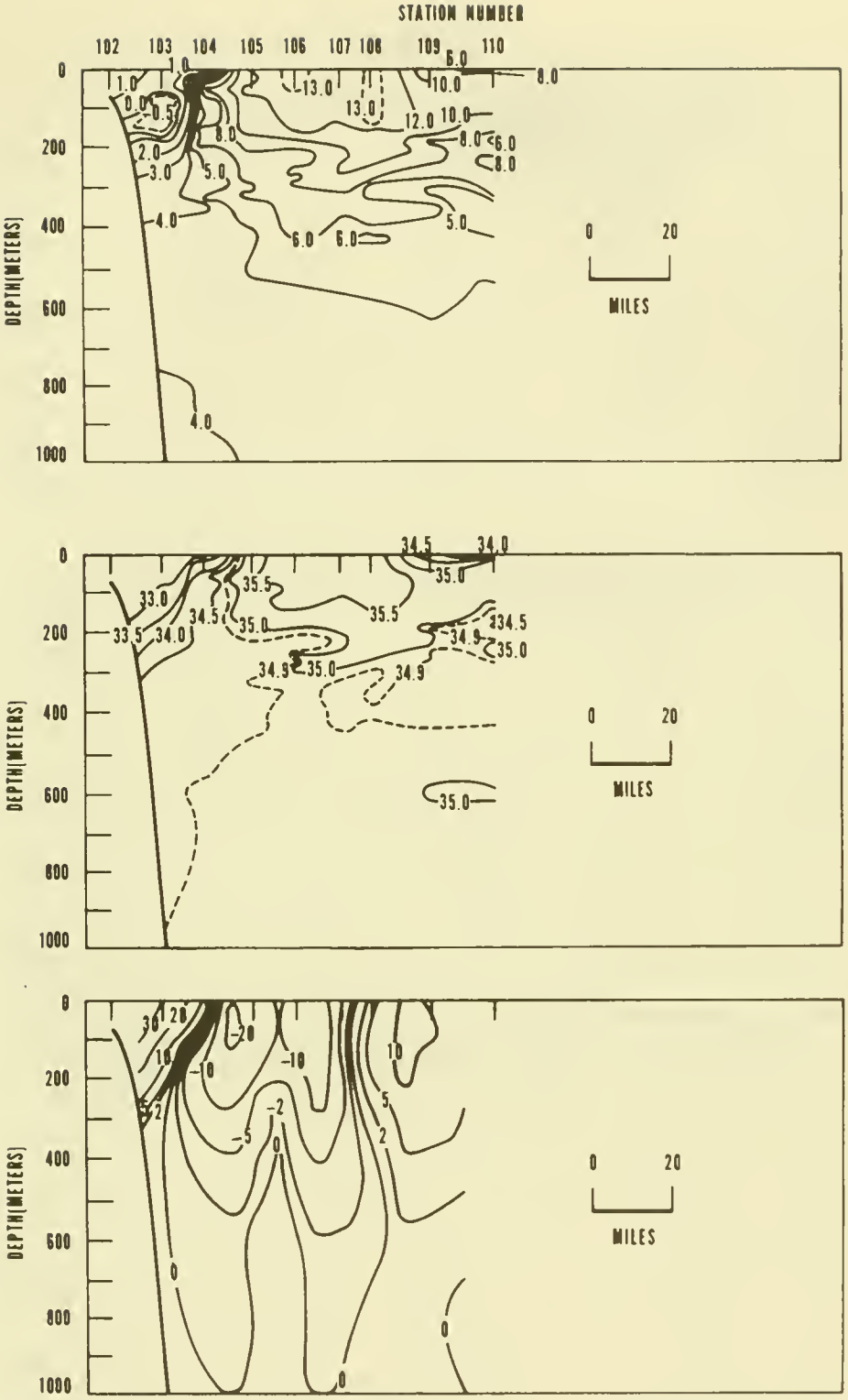

Figure 16. Temperature (°C), salinity (°/₀₀) and current velocity (cm/sec) profiles for Section A3, 13–14 April 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

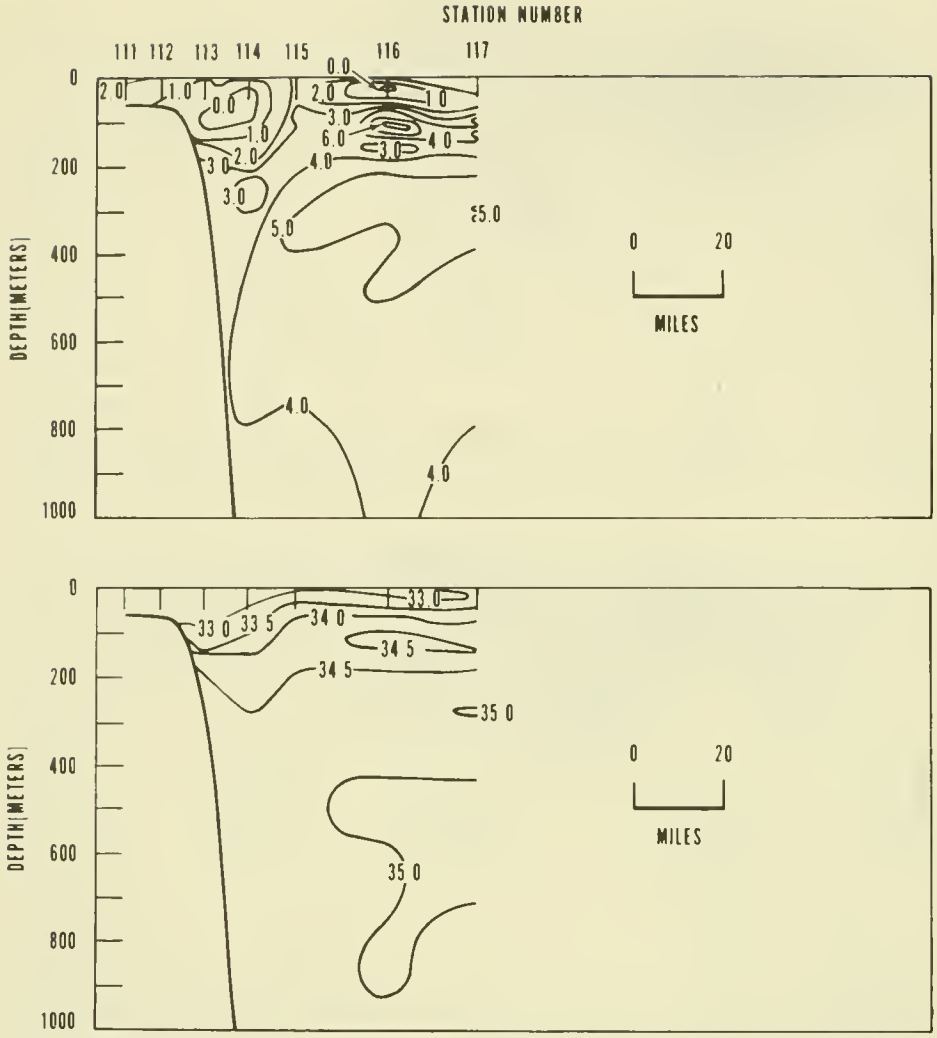

Figure 17. Temperature (°C), salinity (°/oo) profiles for Section A4, 14–15 April 1968. The velocity profile has been omitted because the spacing of stations was inadequate for proper integration of dynamic heights along the sea bottom.

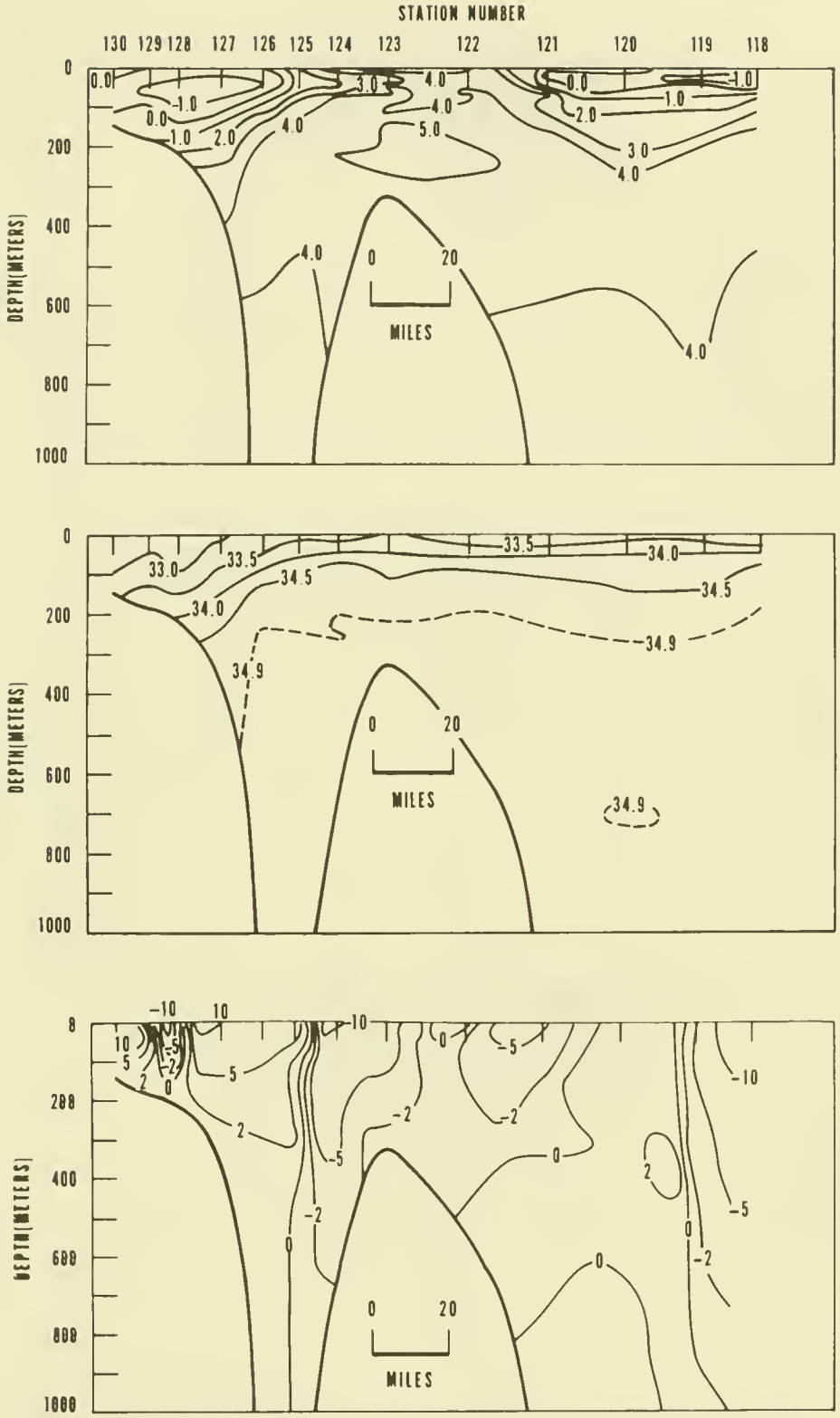

Figure 18. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A2, 16–17 April 1968. Section A2, possesses a right-angle configuration with station 123 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow.

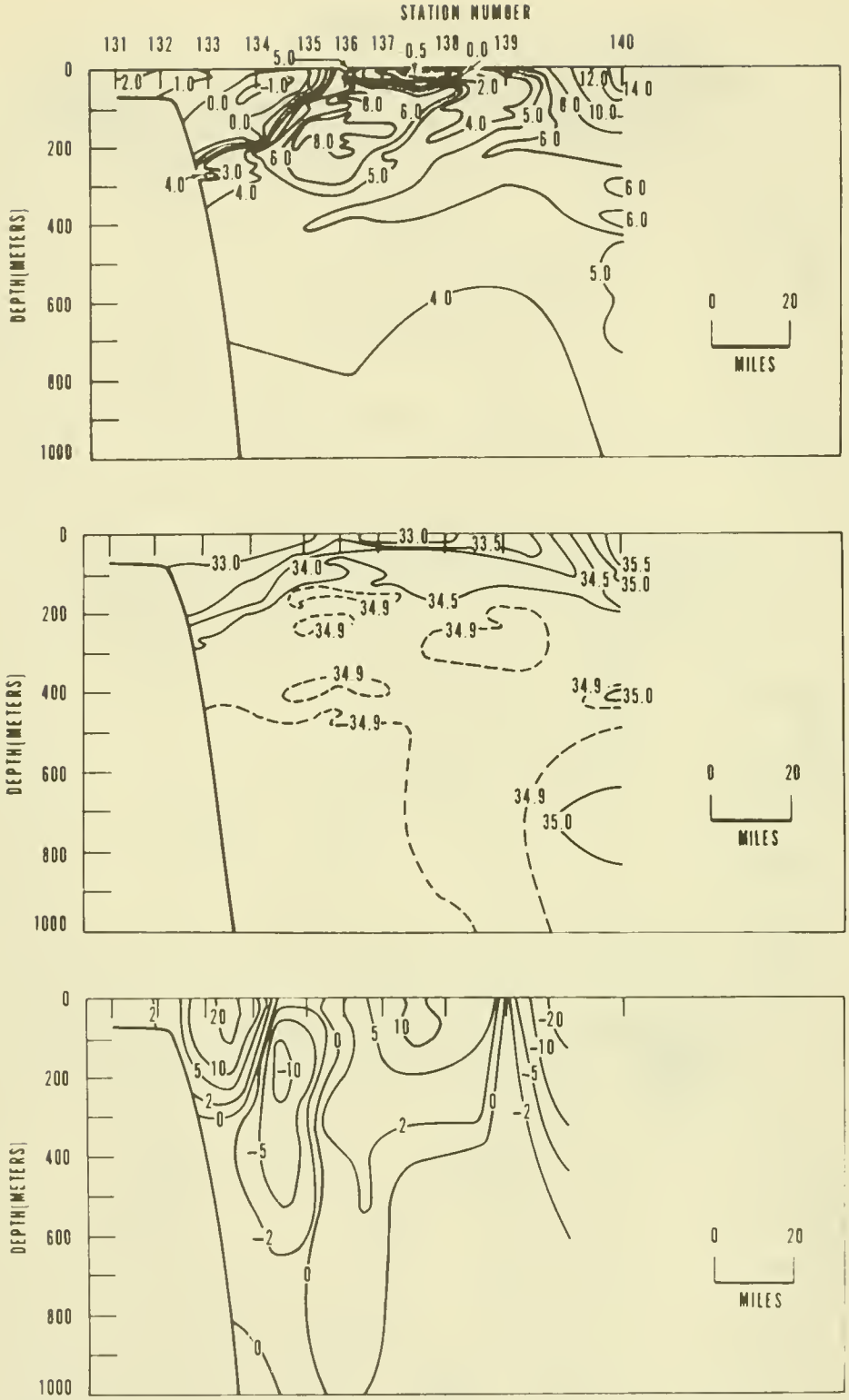

Figure 19. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A3, 21 April 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

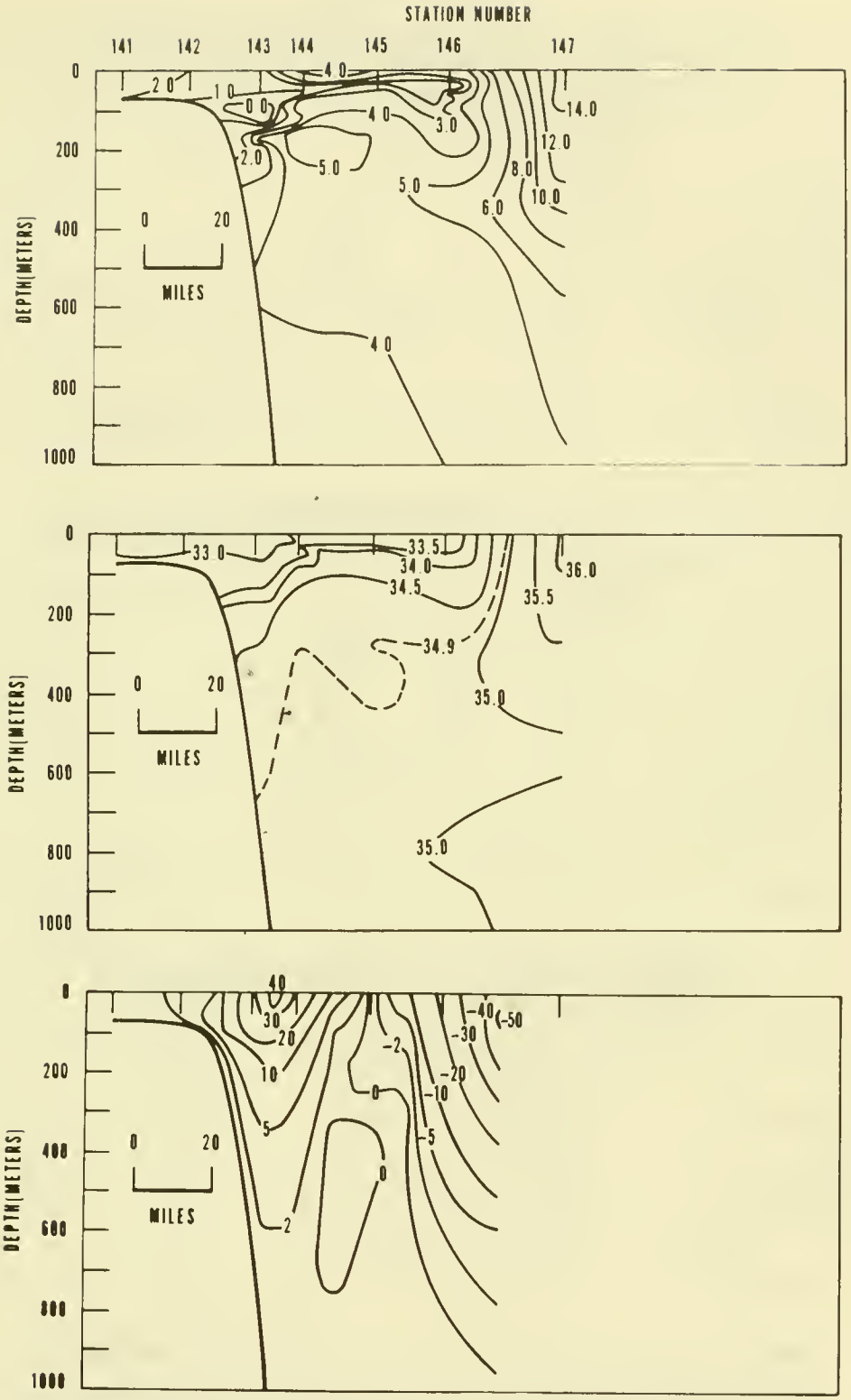

Figure 20. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A4, 24 April 1968. On the velocity profile positive values denote westward flow, negative values denote eastward flow.

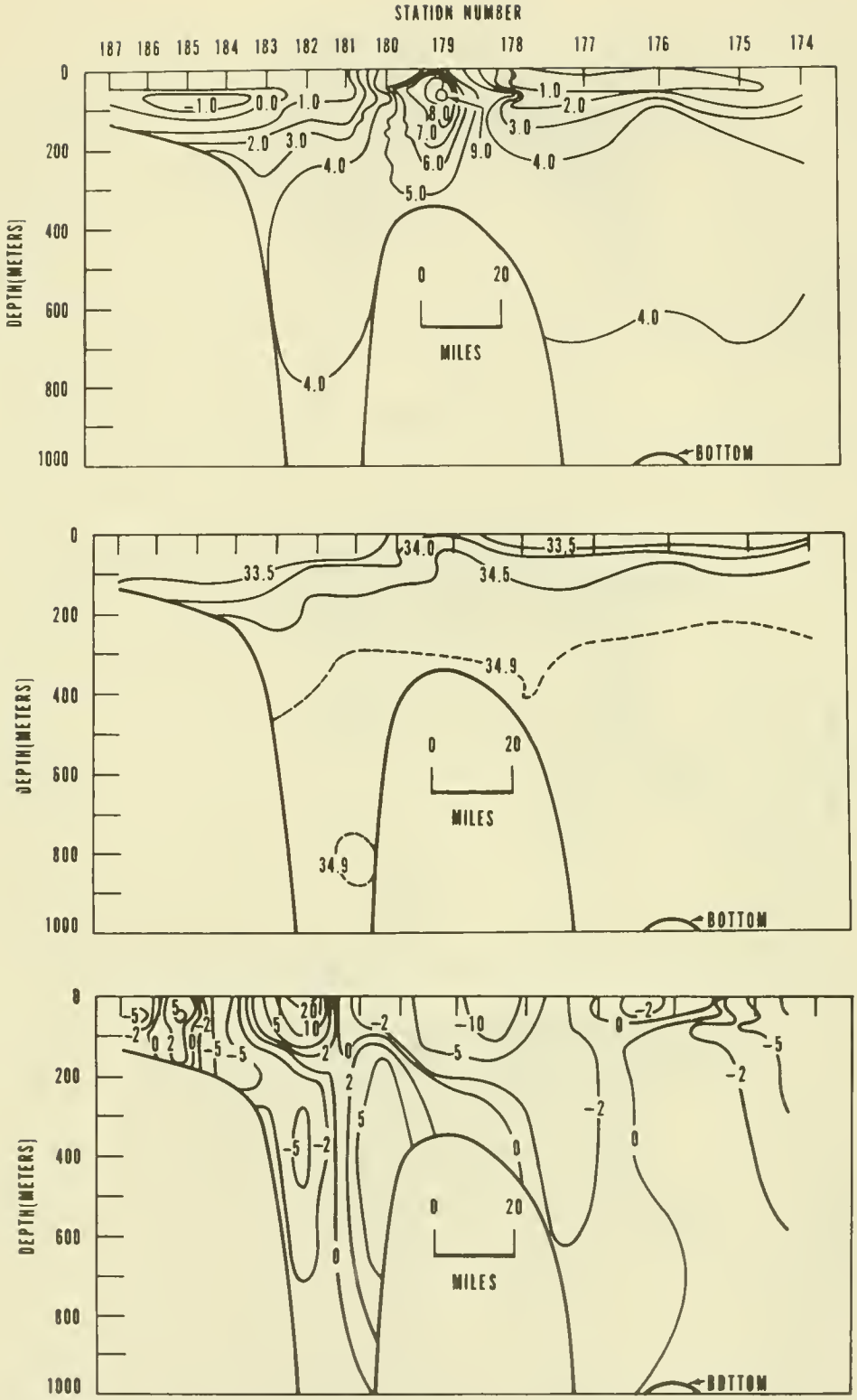

Figure 21. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A2, 14–18 May 1968. Section A2 possesses a right-angle configuration with station 179 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow.

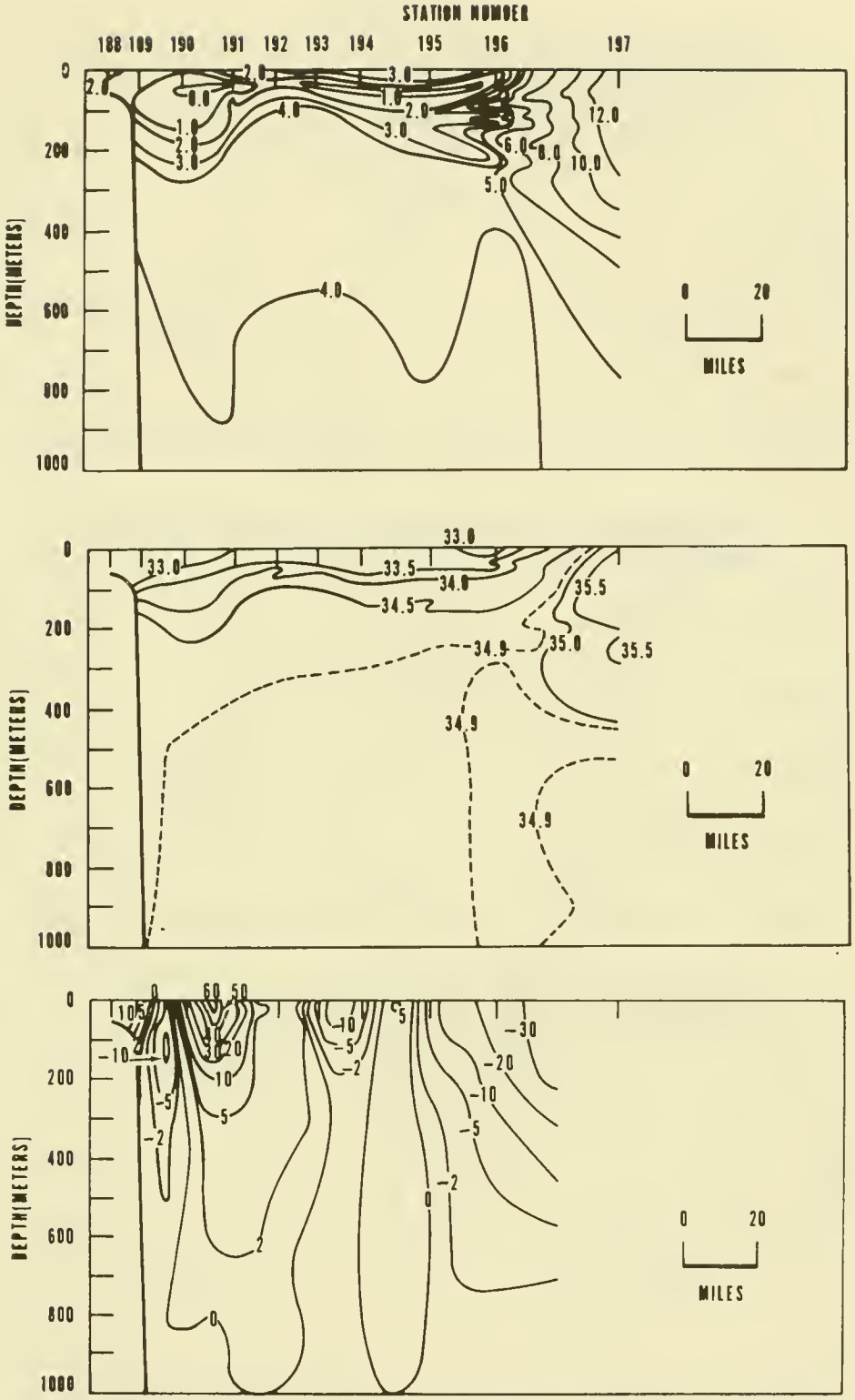

Figure 22. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A3, 18–19 May 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

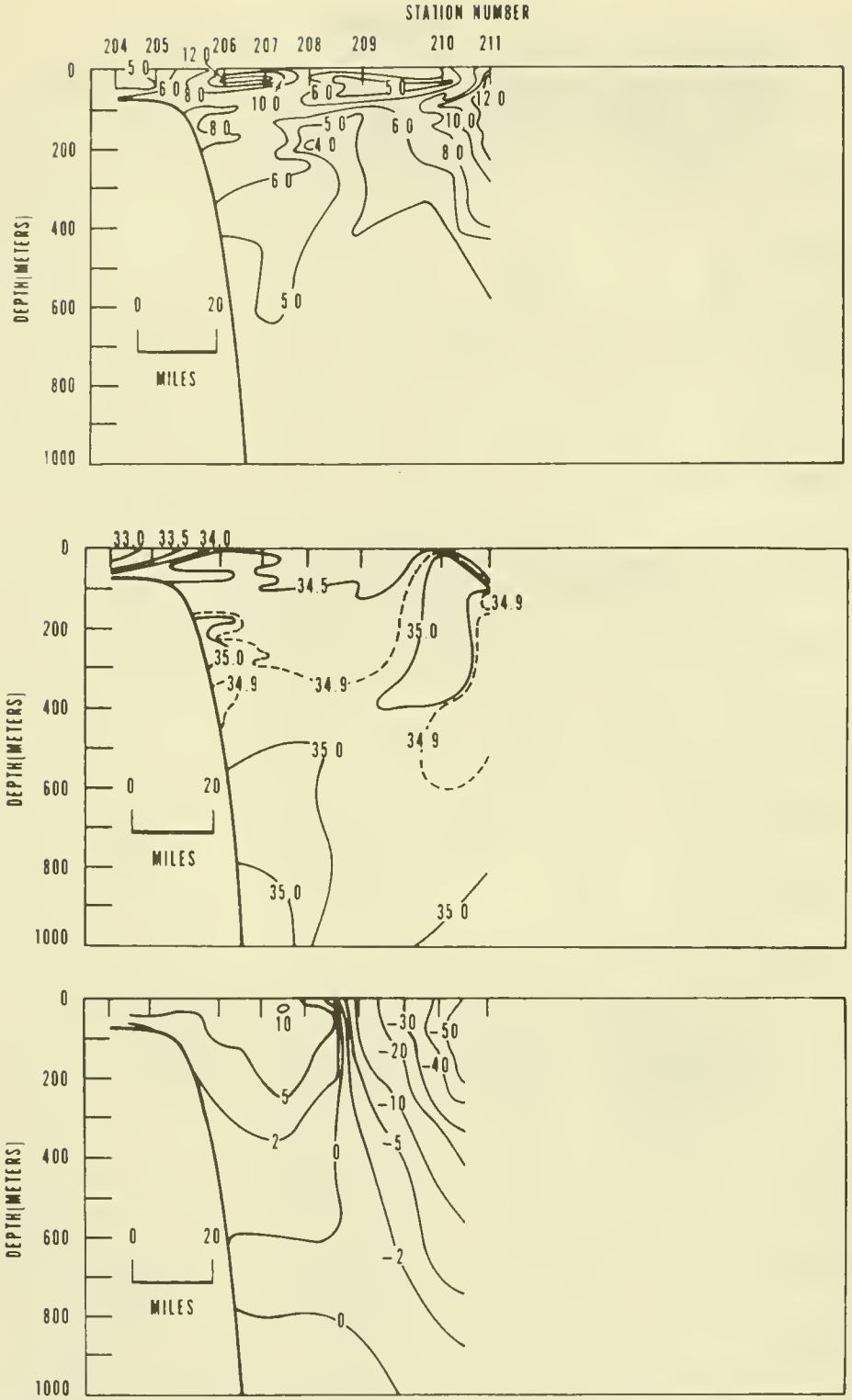

Figure 23. Temperature (°C), salinity (°/₀₀) and current velocity (cm/sec) profiles for Section A4, 20–21 May 1968. On the velocity profile positive values denote westward flow, negative values denote eastward flow.

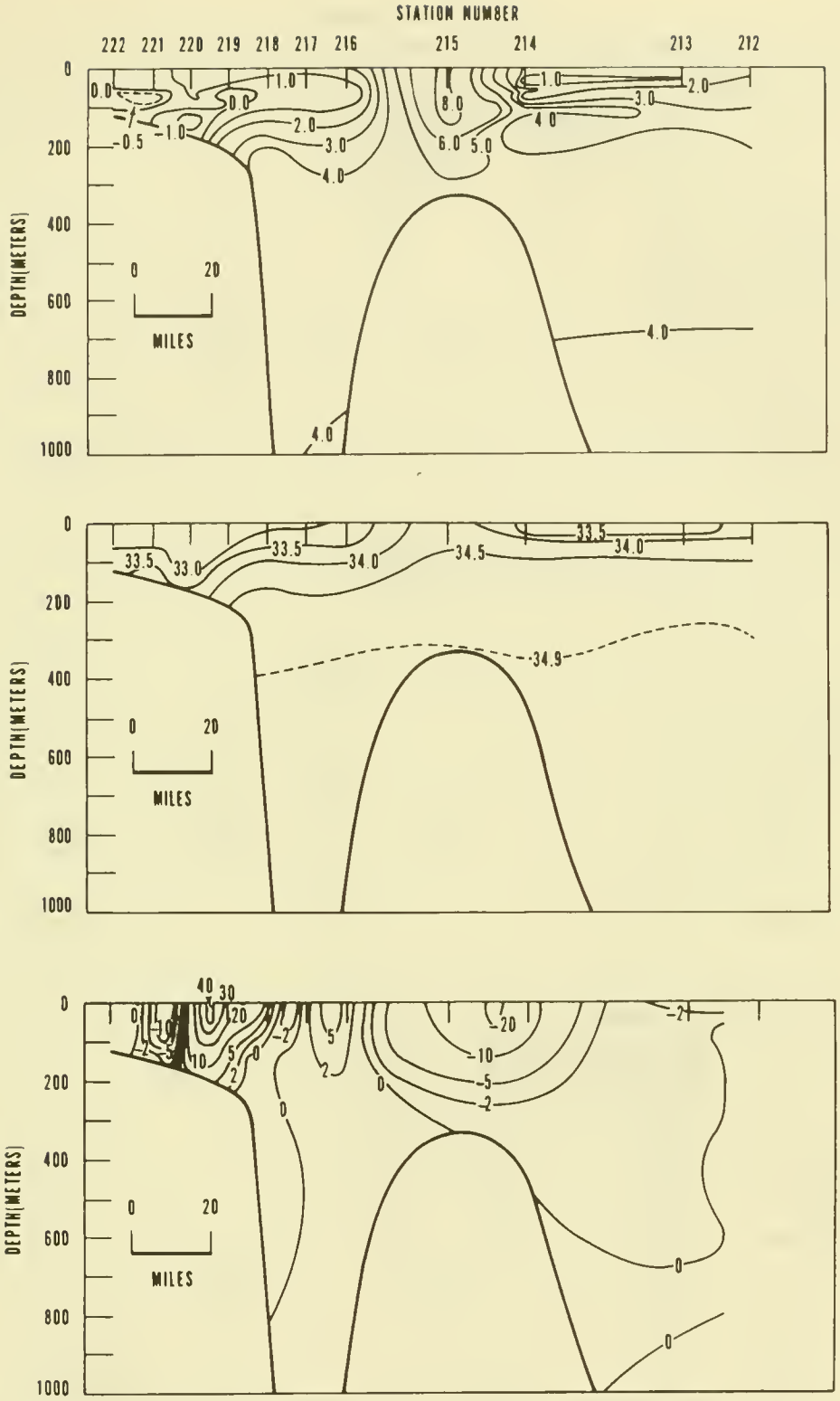

Figure 24. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A2, 23–24 May 1968. Section A2 possesses a right-angle configuration with station 215 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow.

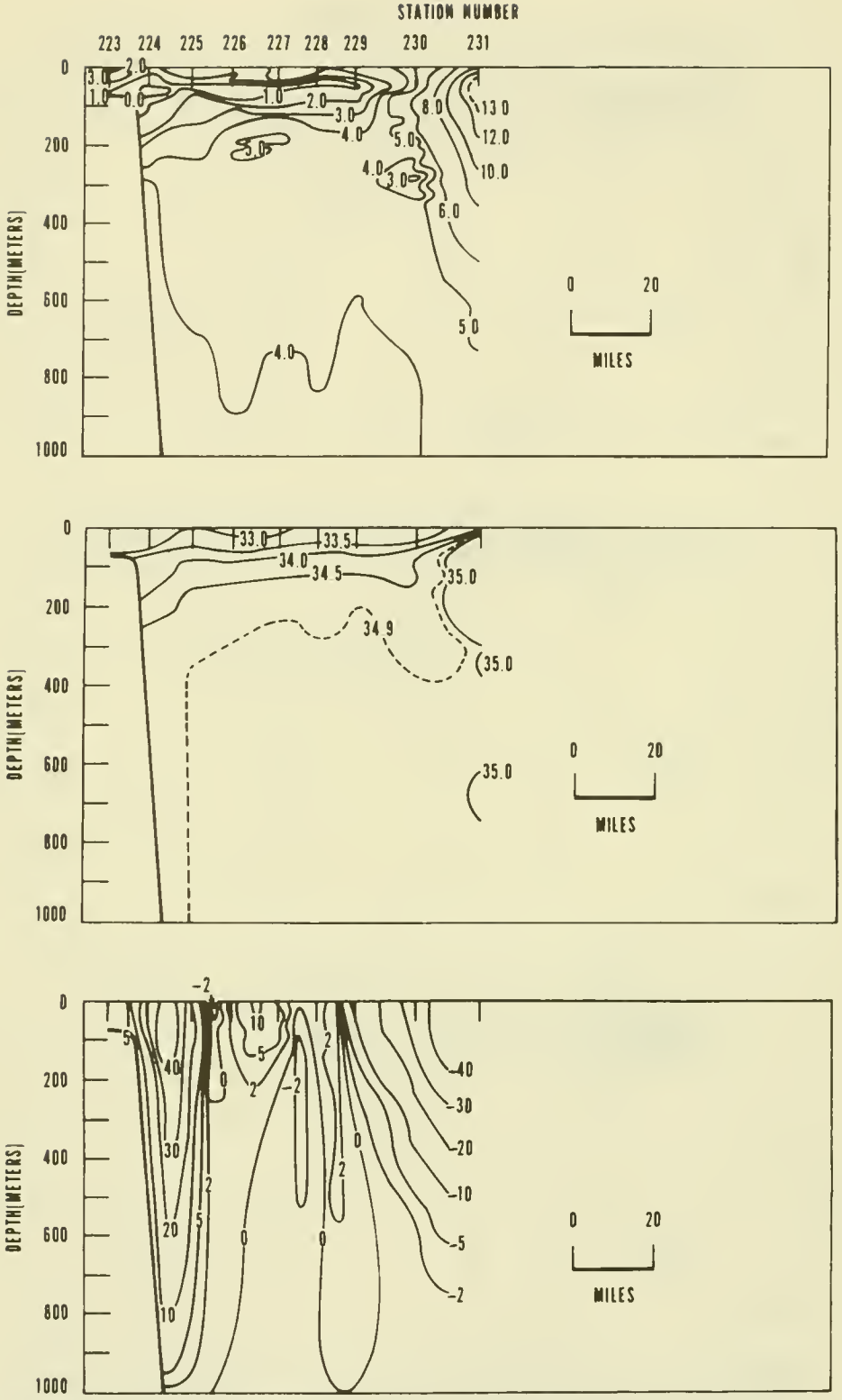

Figure 25. Temperature (°C), salinity (°/₀₀) and current velocity (cm/sec) profiles for Section A3, 24–25 May 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

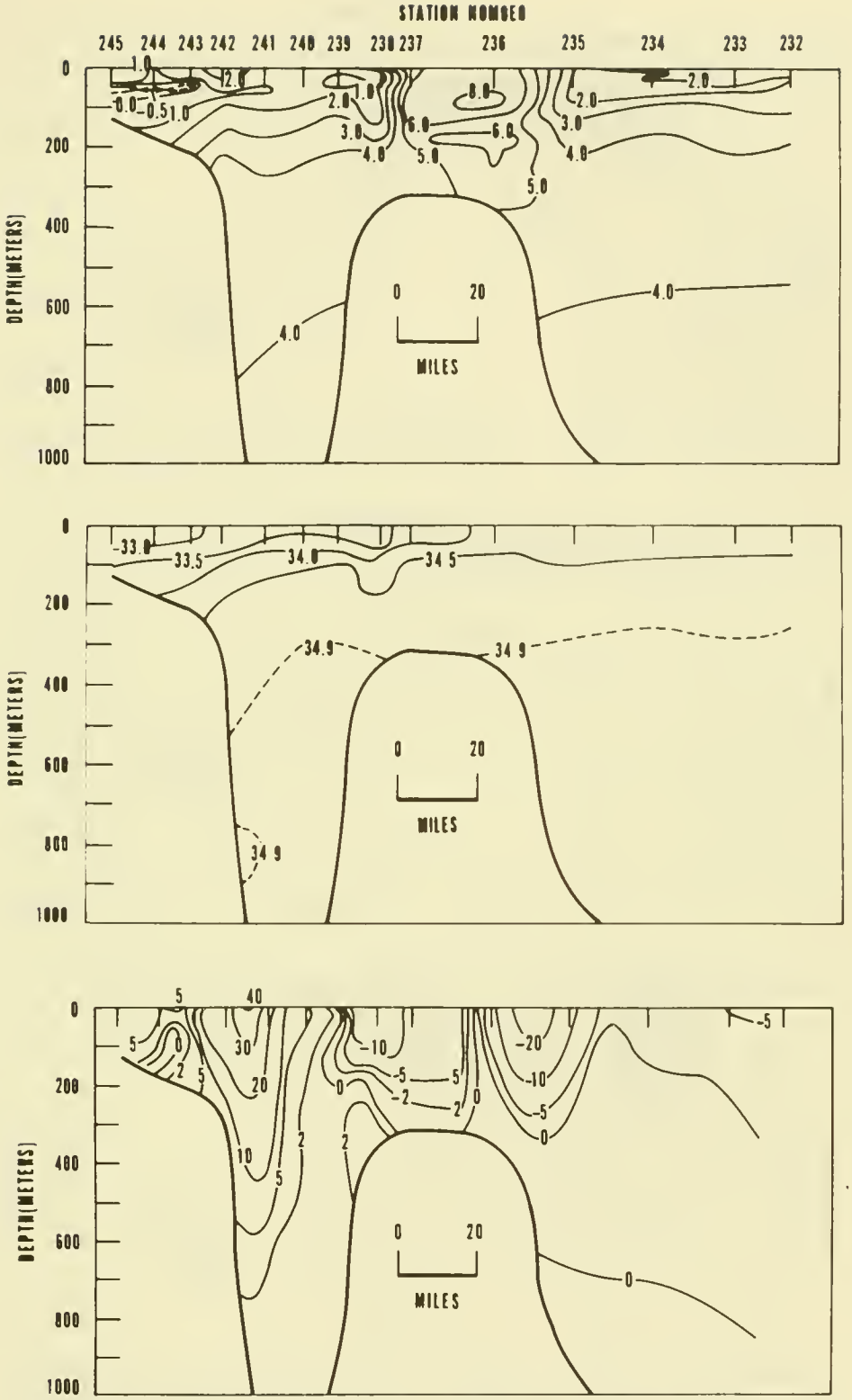

Figure 26. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A2, 30 May 1968. Section A2 possesses a right-angle configuration with station 237 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow. At station 237 this convention results in a change in sign along the same contour.

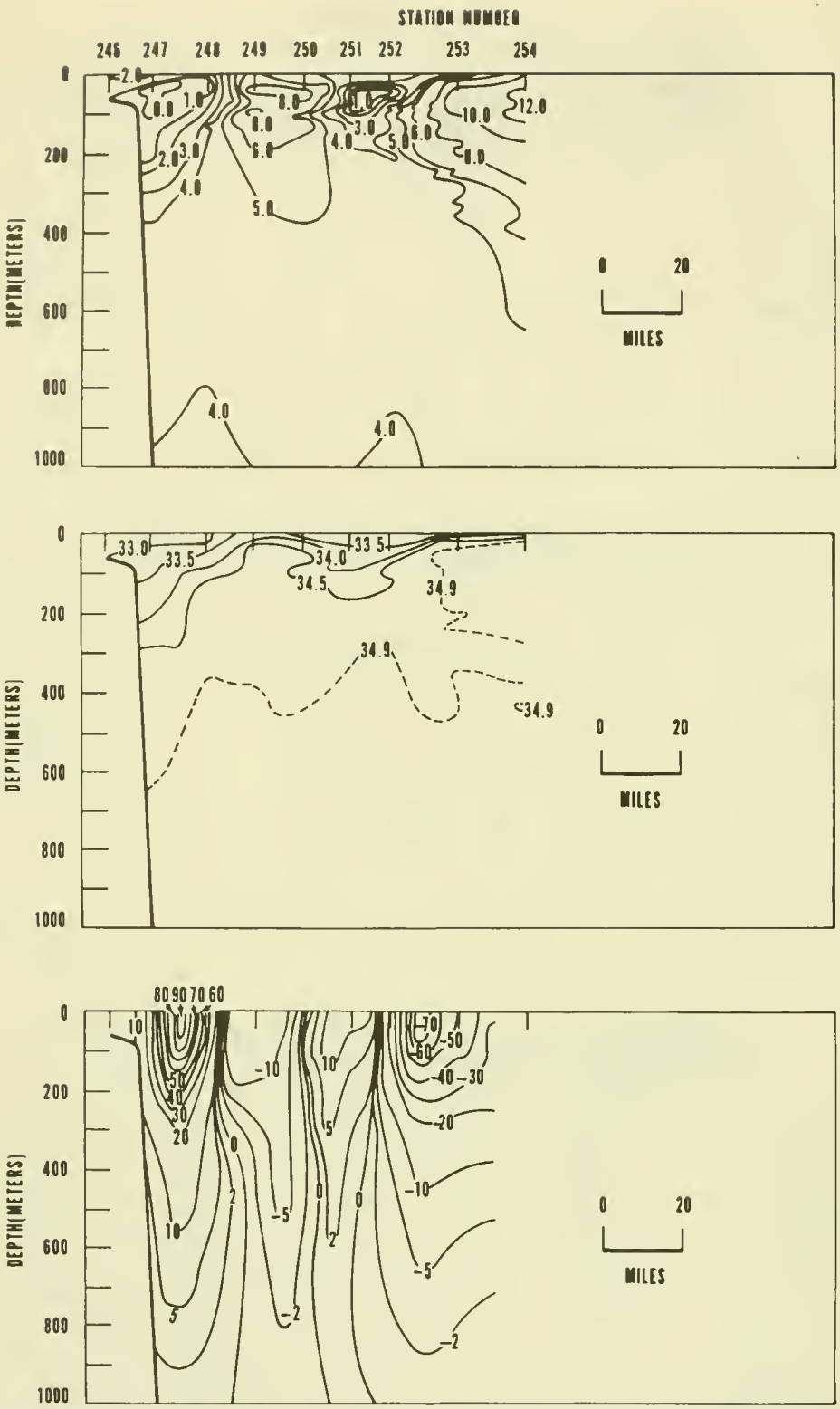

Figure 27. Temperature (°C), salinity (°/₀₀) and current velocity (cm/sec) profiles for Section A3, 31 May–1 June 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

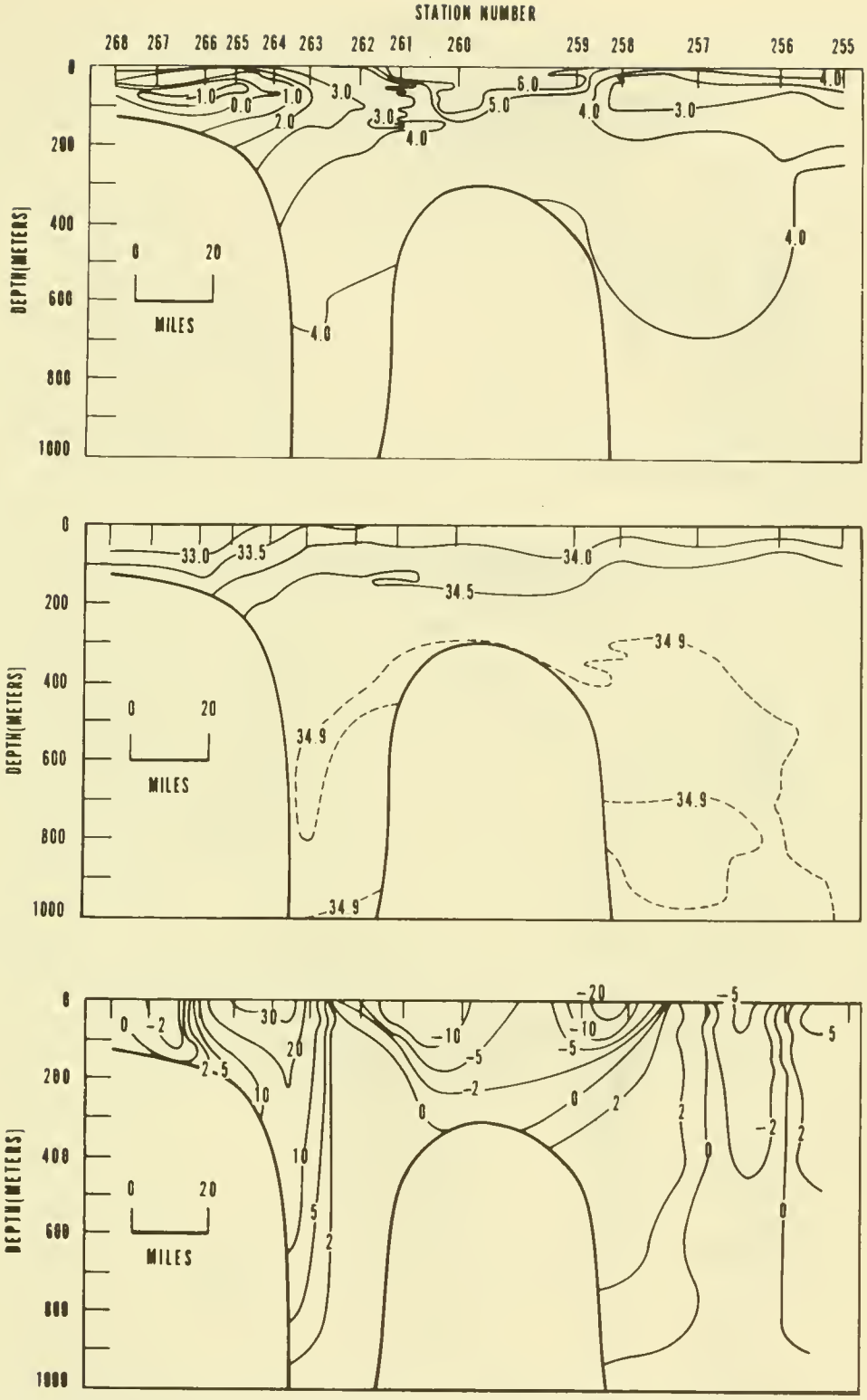

Figure 28. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A2, 18–19 June 1968. Section A2 possesses a right-angle configuration with station 260 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow.

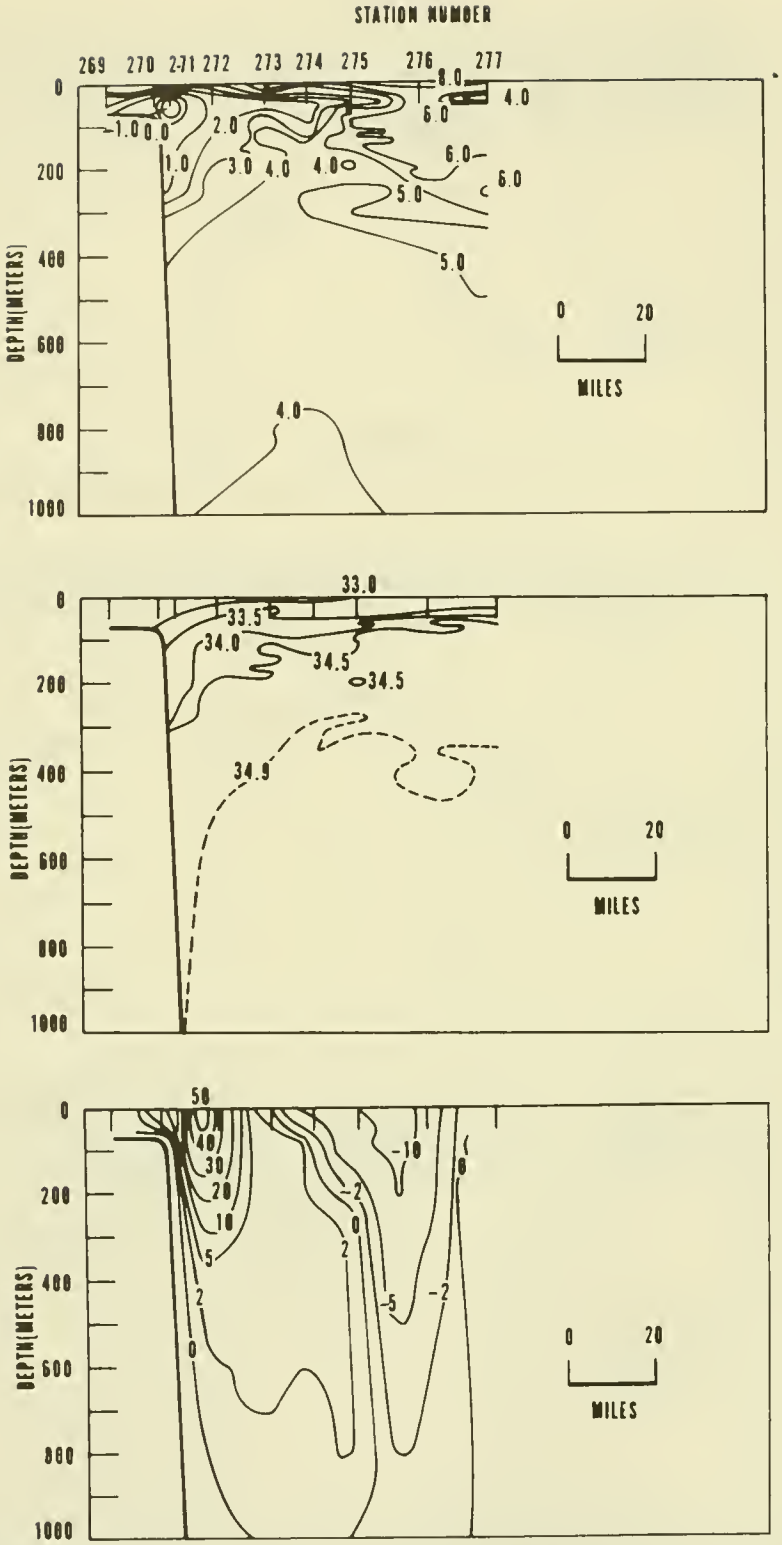

Figure 29. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A3, 20 June 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

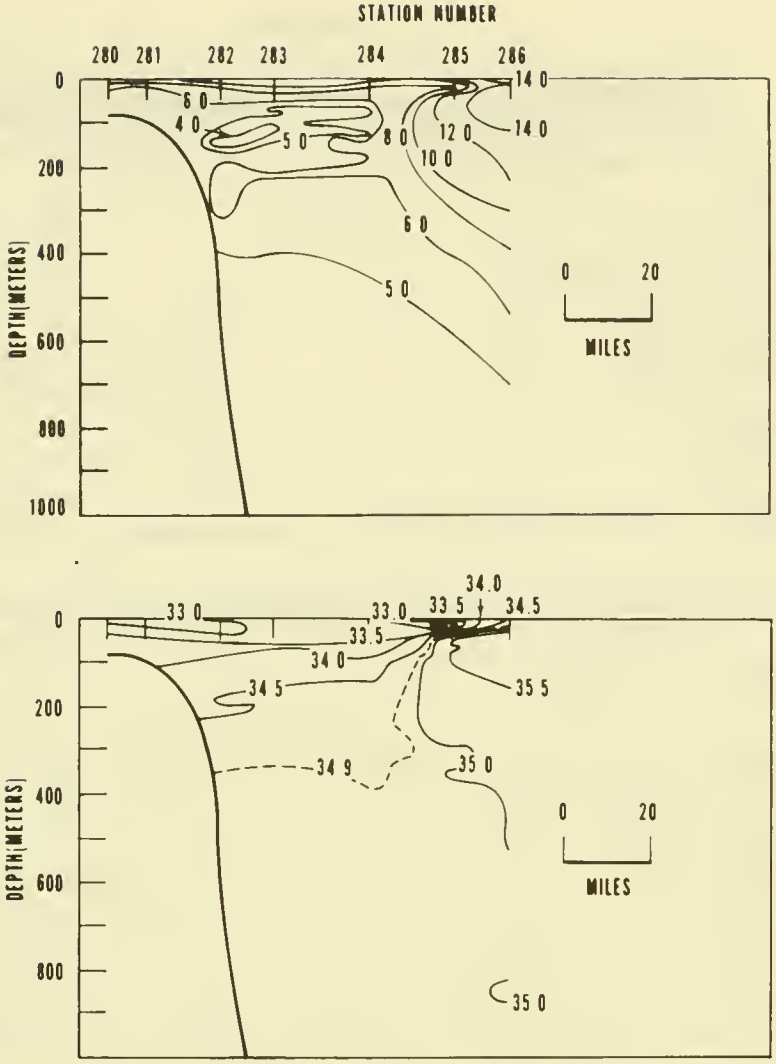

Figure 30. Temperature (°C), and salinity (°/oo) profiles for Section A4, 21 June 1968. The velocity profile has been omitted because the spacing of stations was inadequate for proper integration of dynamic heights along the sea bottom.

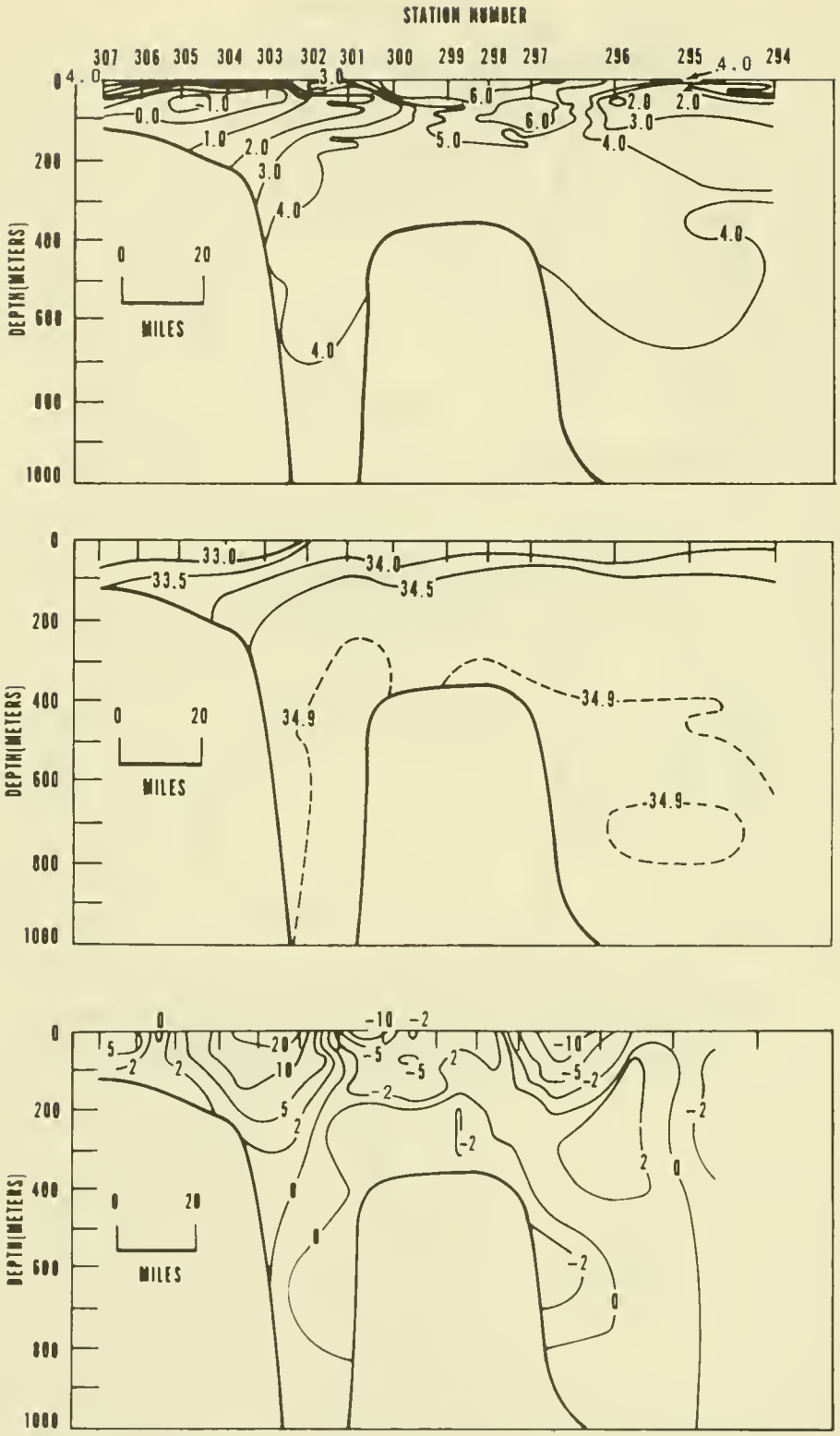

Figure 31. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A2, 24–25 June 1968. Section A2 possesses a right-angle configuration with station 299 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow. At station 299 this convention results in a change of sign along the same contour.

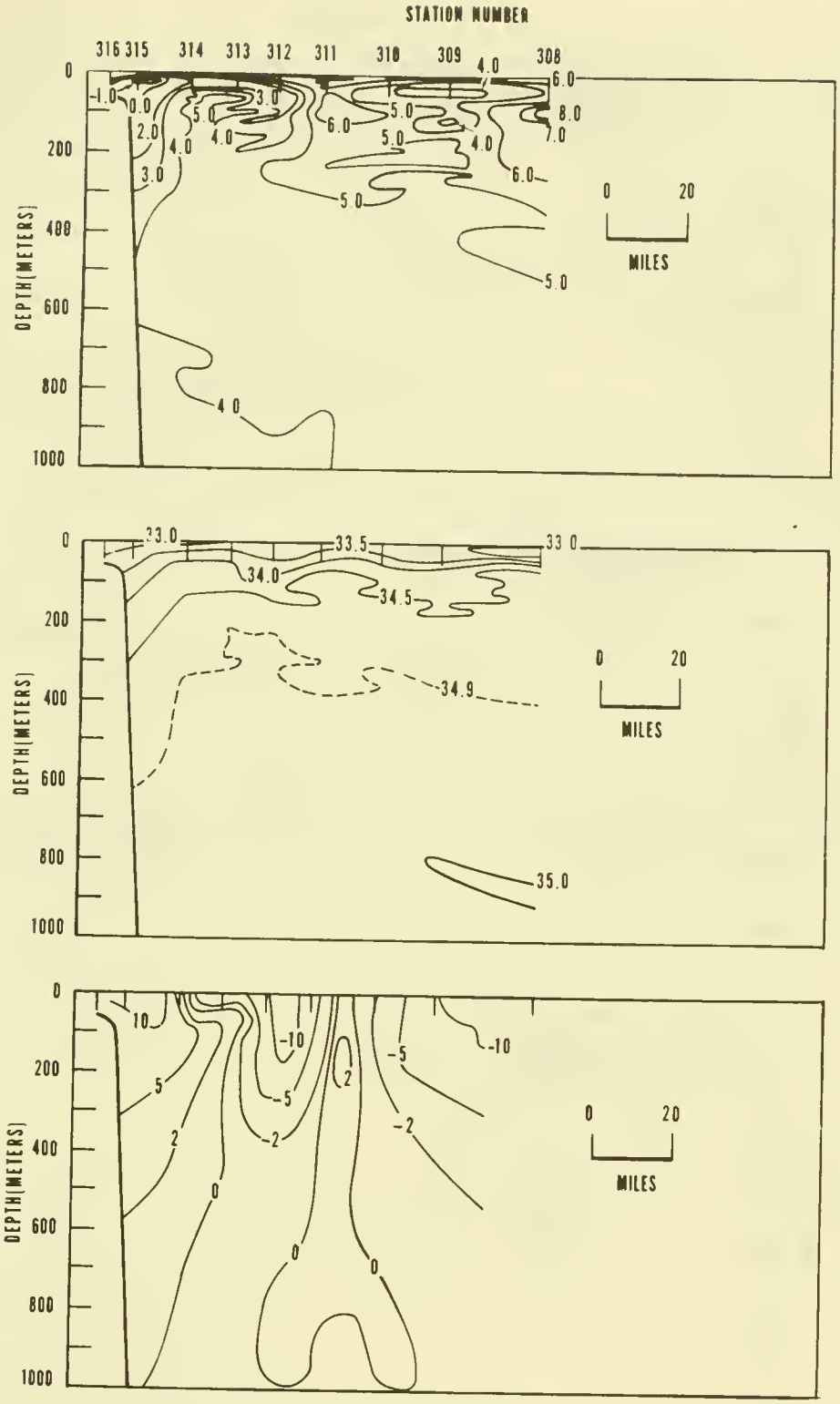

Figure 32. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A3, 25–26 June 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

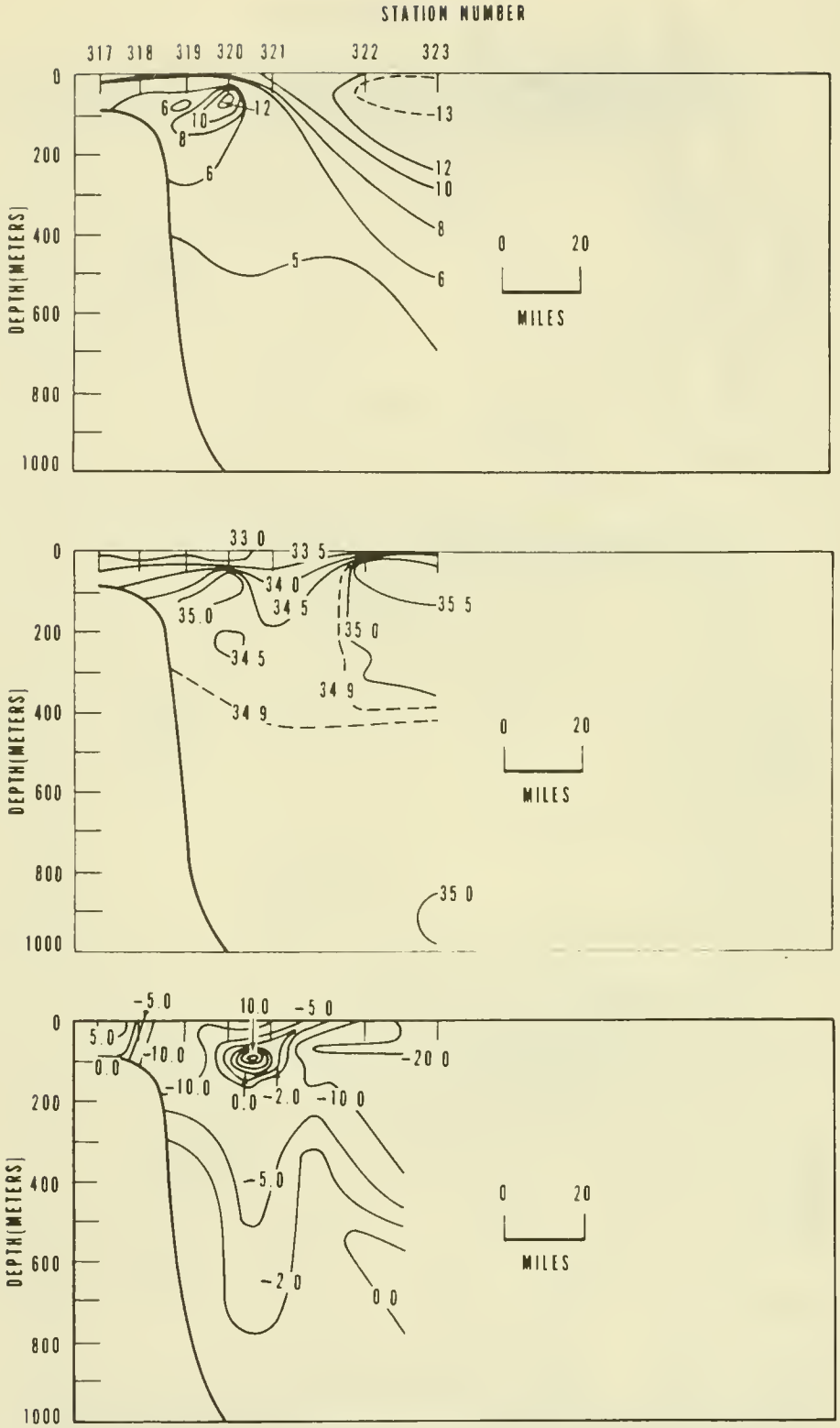

Figure 33. Temperature (°C), salinity (°/oo) and current velocity (cm/sec) profiles for Section A4, 26–27 June 1968. On the velocity profile positive values denote westward flow, negative values denote eastward flow.

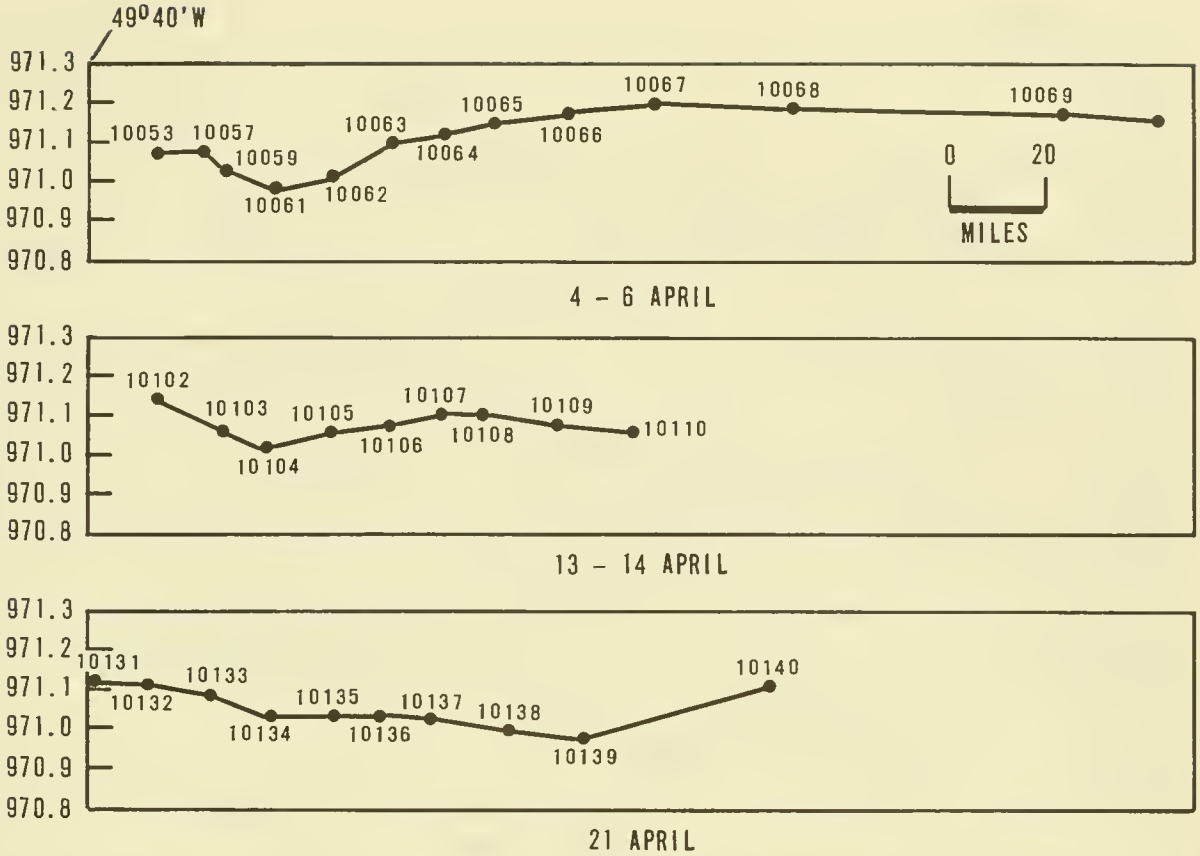

Figure 34. Profiles of dynamic topography of the sea surface (dynamic meters) relative to 1000 decibars for occupations of Section A3 during 4–6, 13–14 and 21 April 1968. The profiles are referenced on the left to longitude 49°40'W.

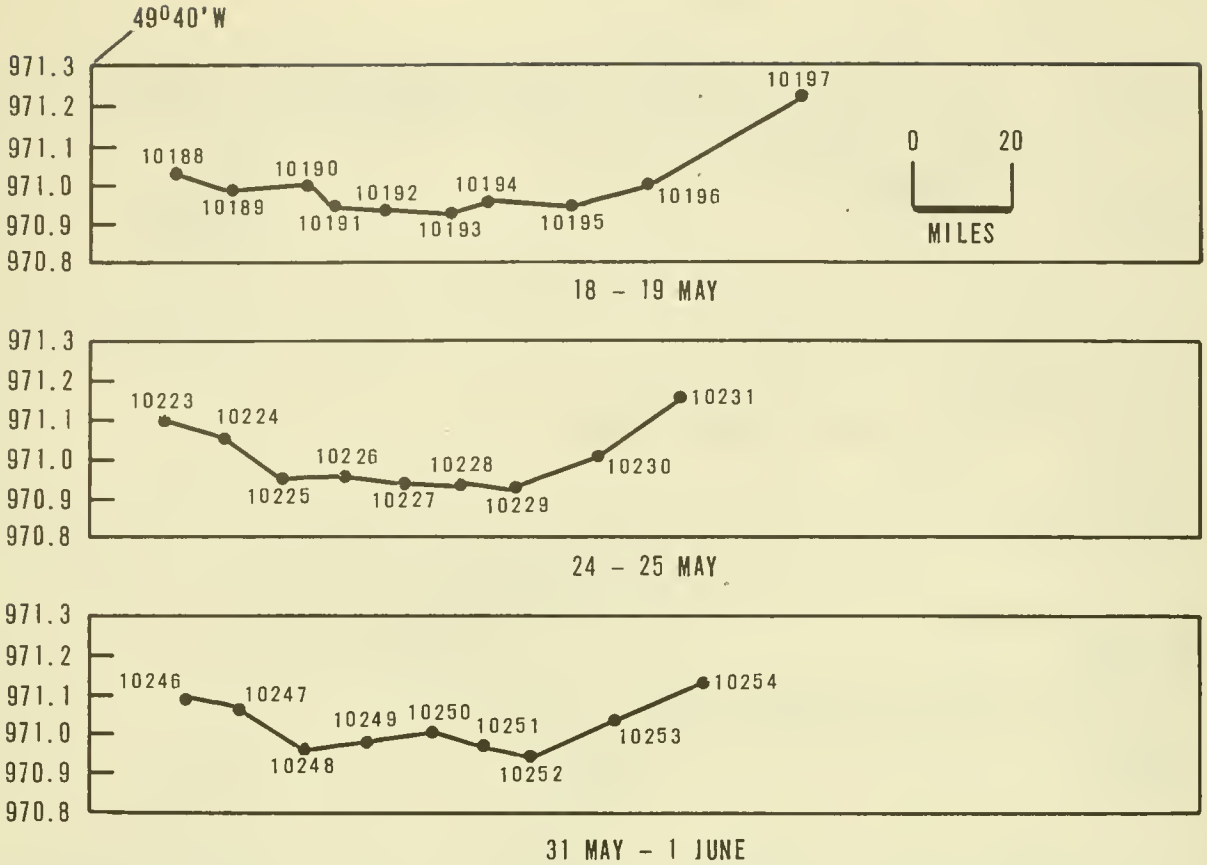

Figure 35. Profiles of dynamic topography of the sea surface (dynamic meters) relative to 1000 decibars for occupations of Section A3 during 18–19 and 24–25 May and 31 May–1 June 1968. The profiles are referenced on the left to longitude 49°40'W.

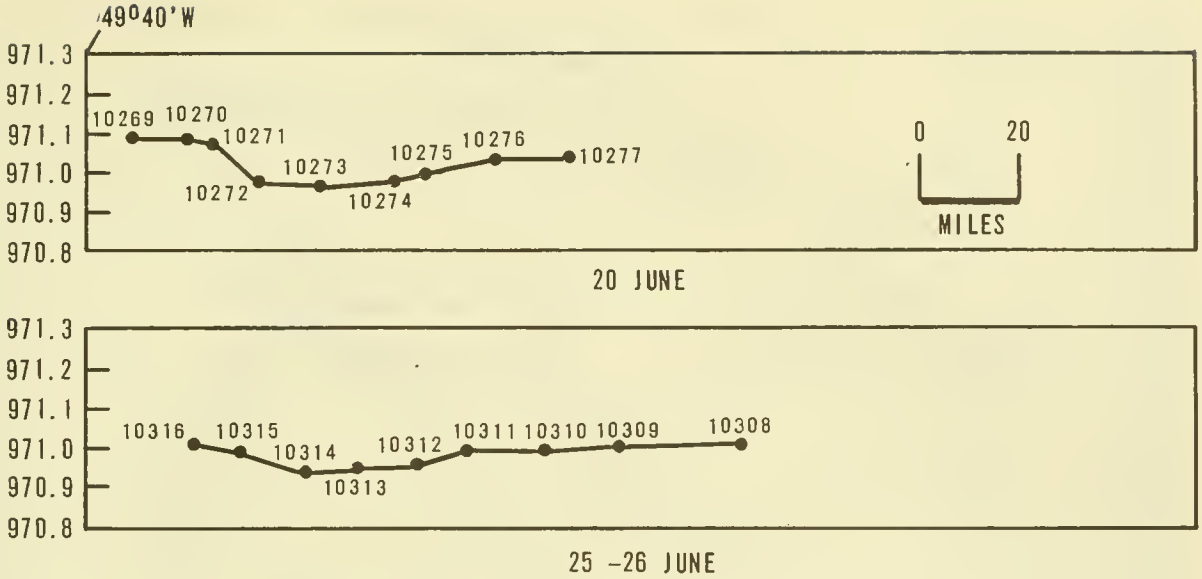

Figure 36. Profiles of dynamic topography of the sea surface (dynamic meters) relative to 1000 decibars for occupations of Section A3 during 20 June and 25–26 June 1968. The profiles are referenced on the left to longitude 49°40′W.

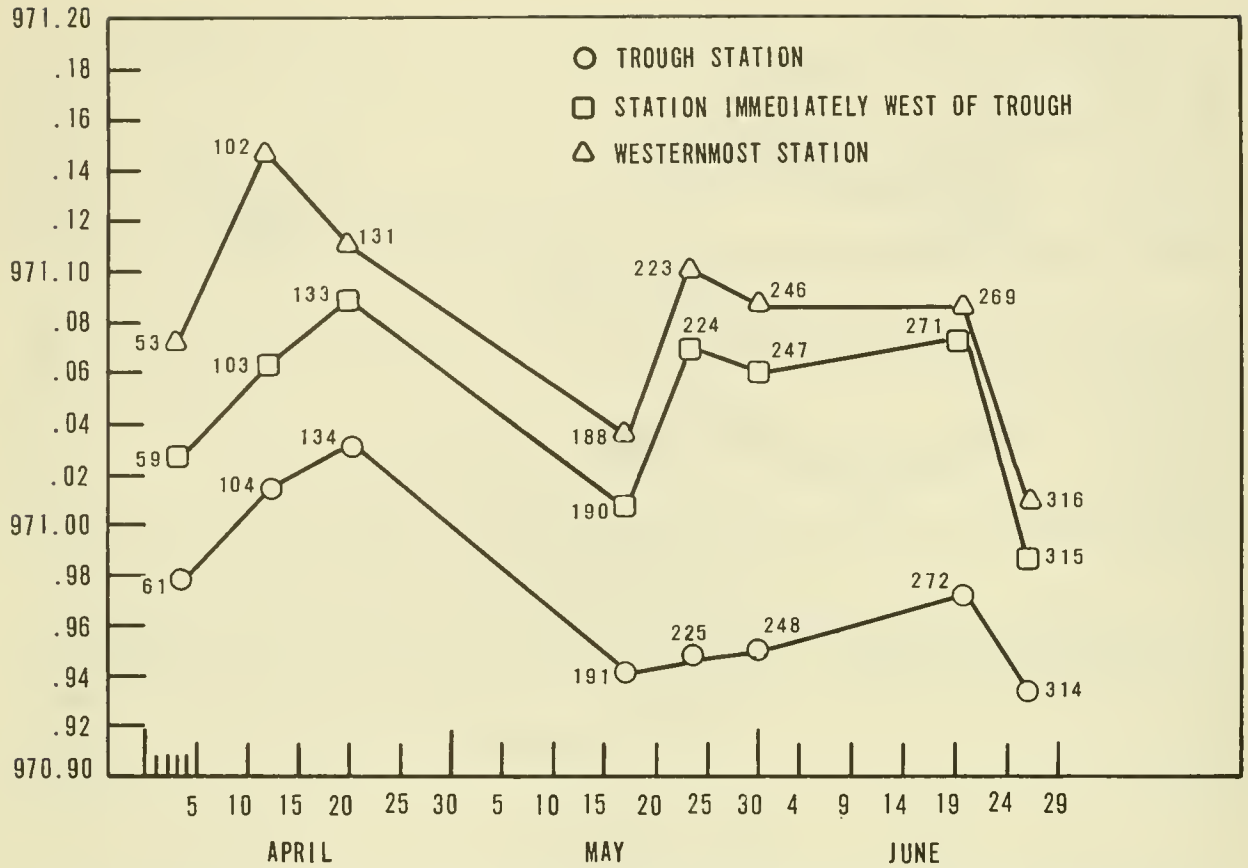

Figure 37. Variation with time of the sea surface dynamic heights (dynamic meters) at the eastern slope of the Grand Banks along Section A3 during the 1968 International Ice Patrol.

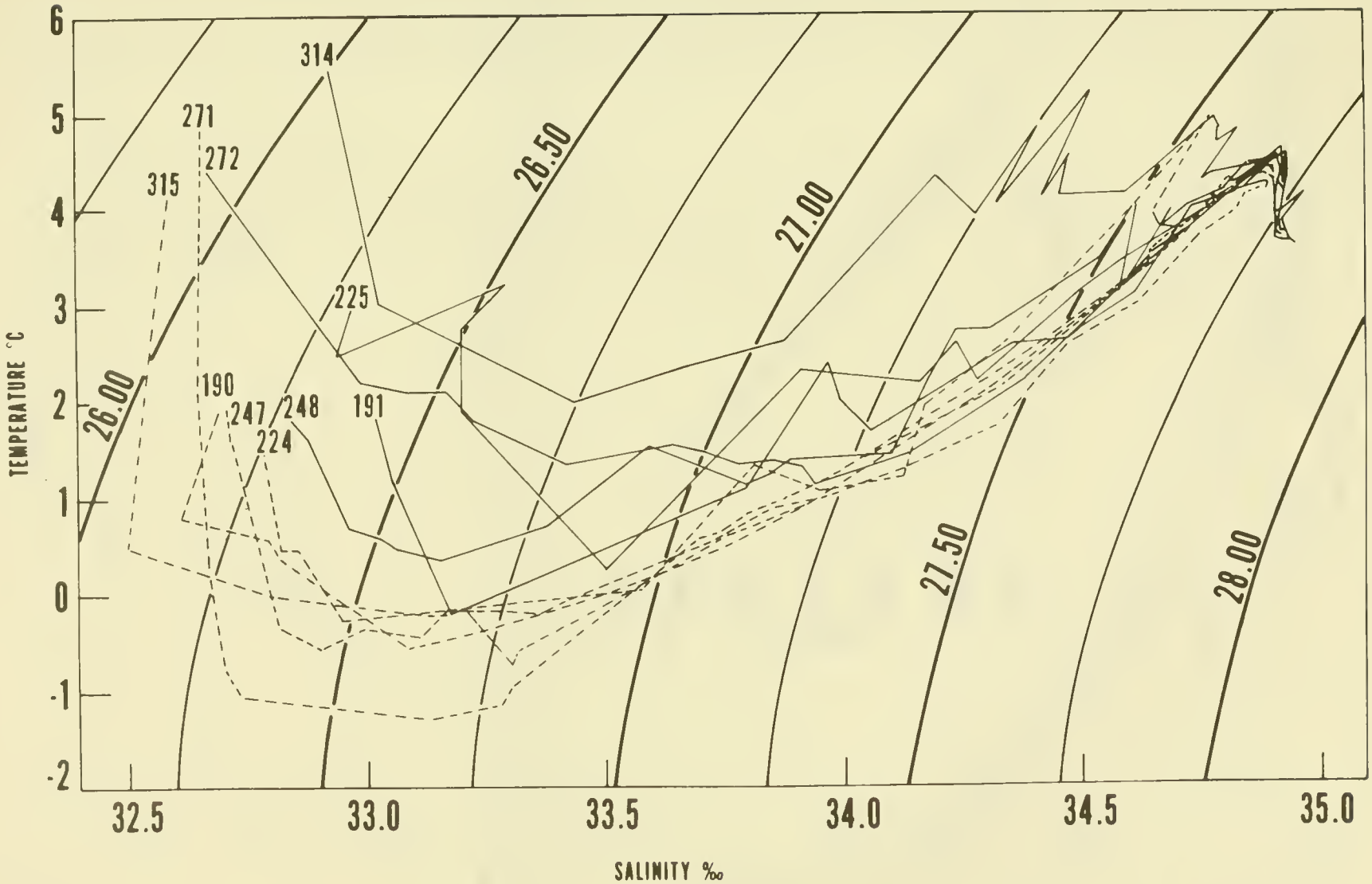

Figure 38. Temperature-salinity (°C), (°/₀₀) diagram for trough stations and stations immediately west of the trough along Section A3. Stations taken prior to 18 May are not represented. Solid lines represent trough stations; dashed lines represent stations immediately west of the trough. The diagonal curves are isopleths of σ_t.

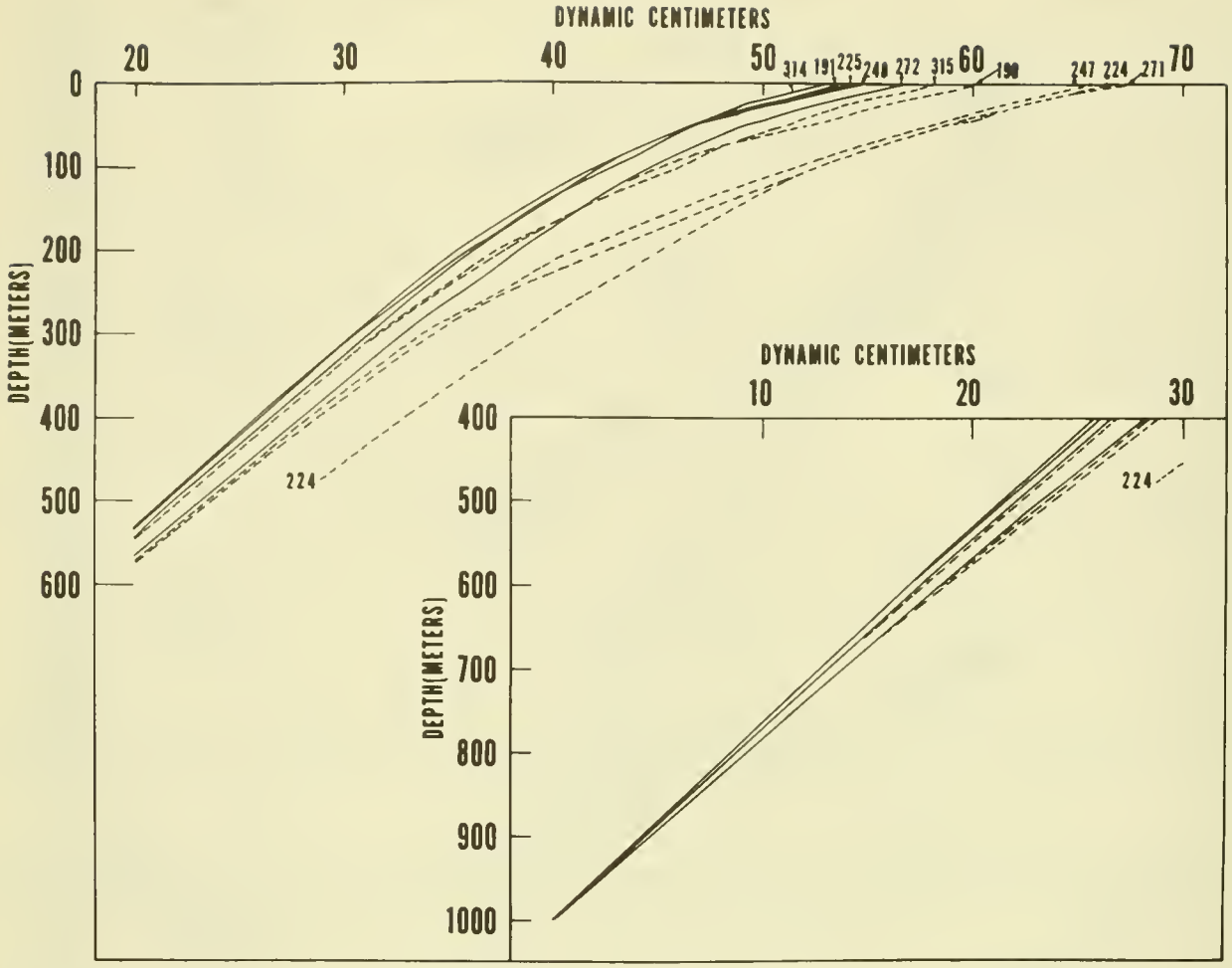

Figure 39. Plot of dynamic height anomaly (dynamic centimeters) versus depth (meters) relative to 1000 decibars. Stations taken prior to 18 May are not represented. Anomalies of dynamic height in water shallower than the reference level were computed in a manner similar to that described by Helland-Hansen (1934); the methods used are described in detail by Kollmeyer (1967).

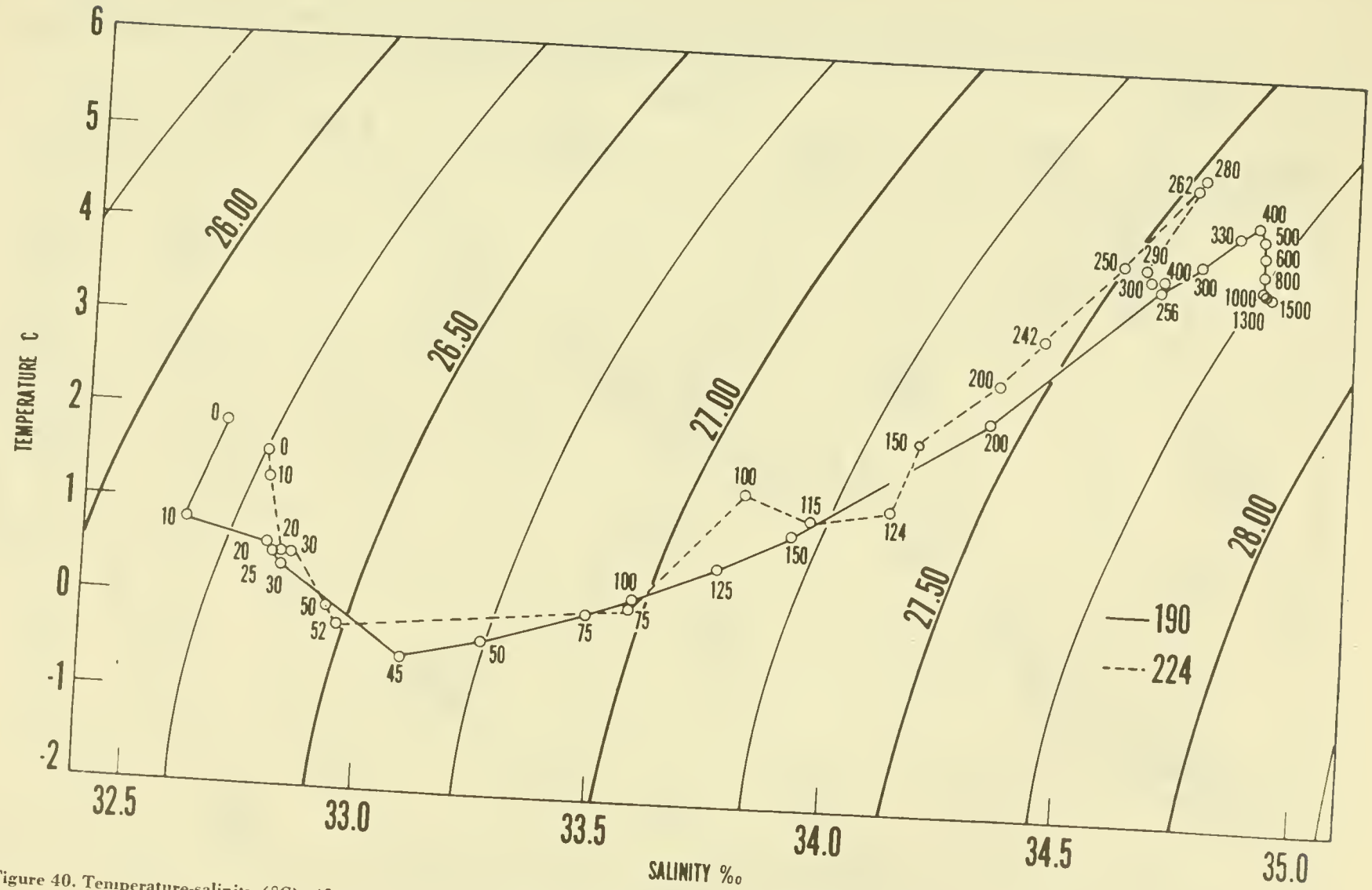

Figure 40. Temperature-salinity (°C), (°/₀₀) diagram for stations 190 and 224, 18 May and 24 May 1968 respectively. Solid line represents station 190; dashed line represents station 224. Depths of observations are indicated near observation points. The diagonal curves are isopleths of σ_t.

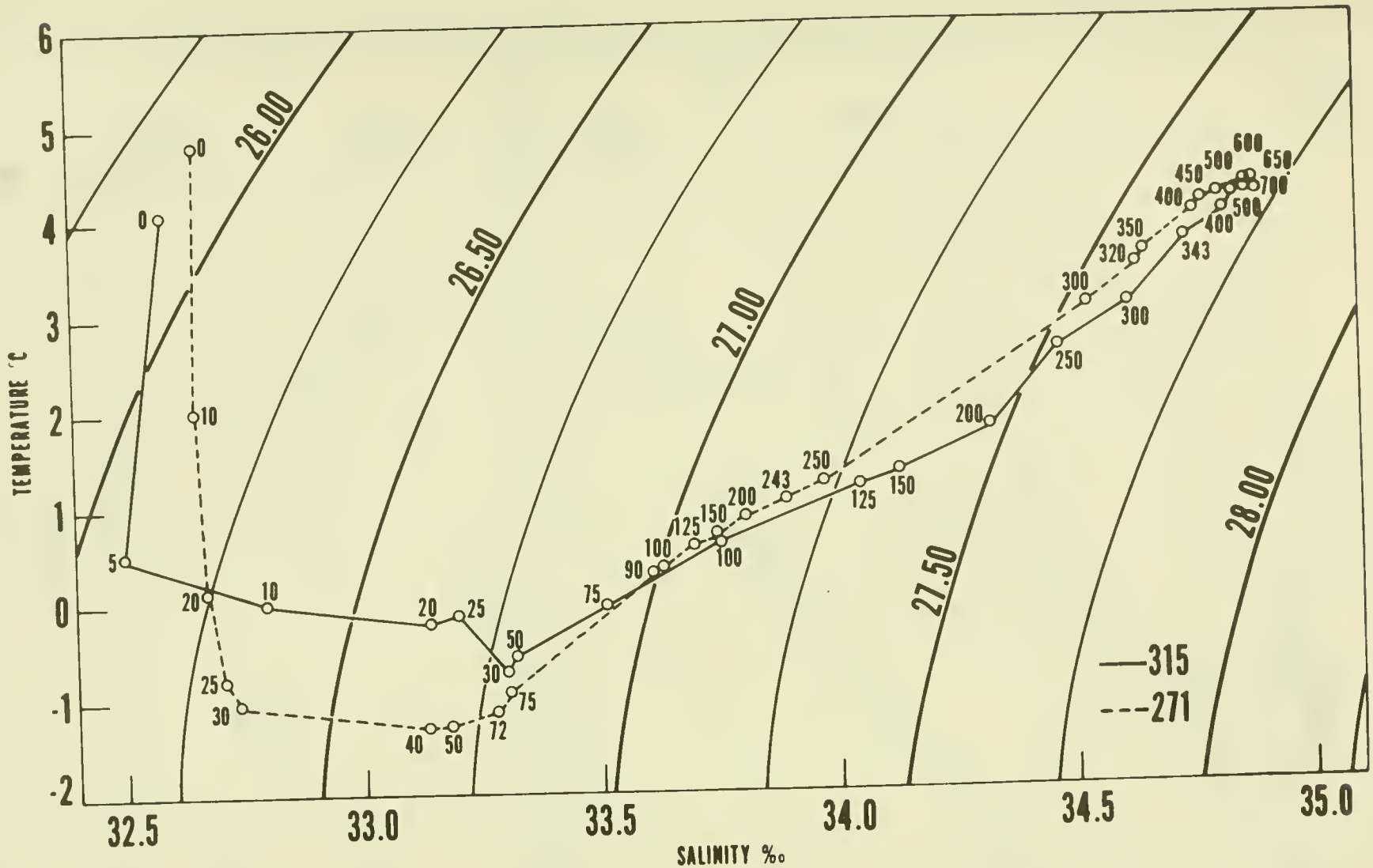

Figure 41. Temperature-salinity (°C), (°/oo) diagram for stations 271 and 315, 20 June and 26 June 1968 respectively. Solid line represents station 316 dashed line represents station 271. Depths of observations are indicated near observation points. The diagonal curves are isopleths of σ_t.

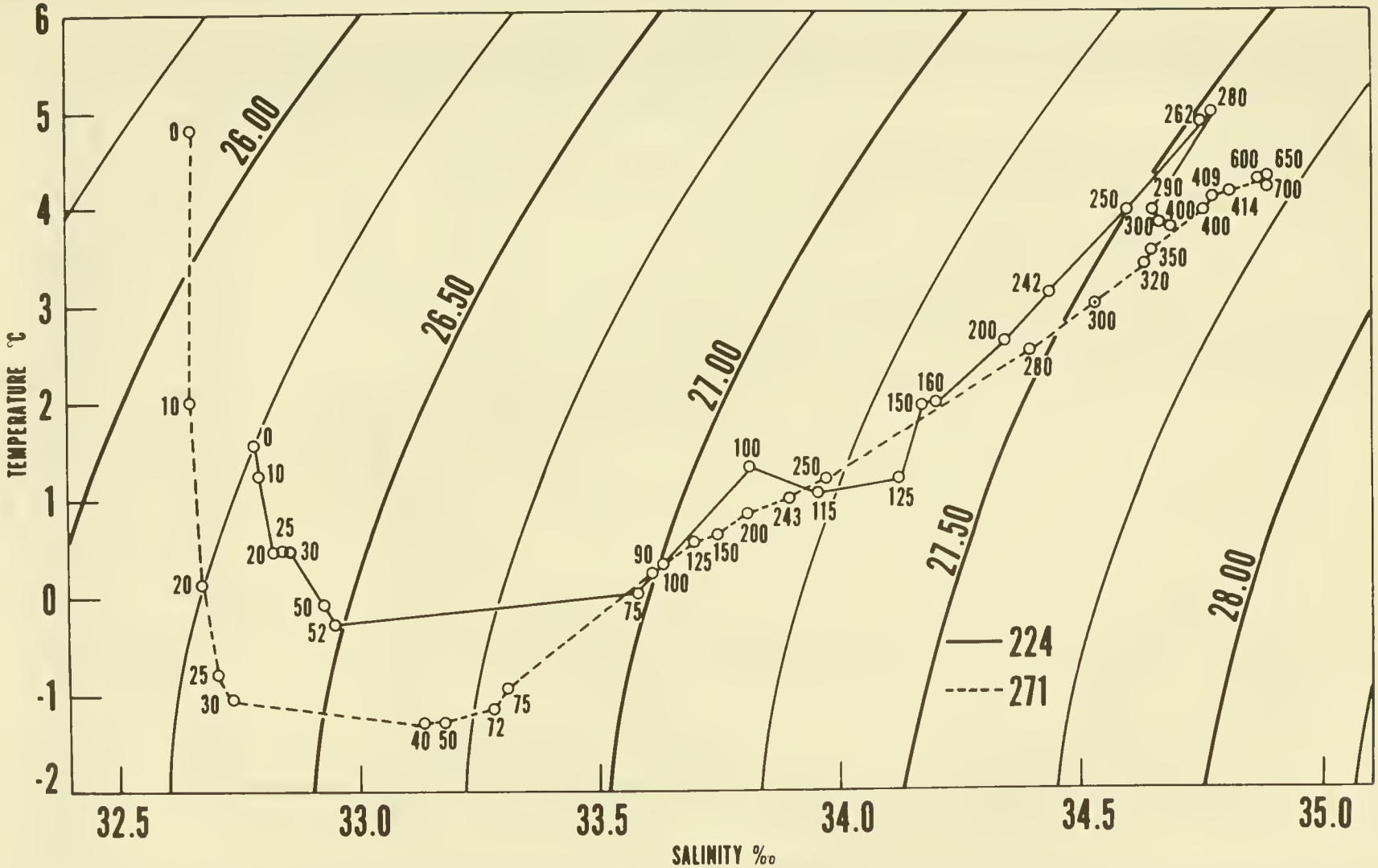

Figure 42. Temperature-salinity (°C), (°/₀₀) diagram for stations 224 and 271, 24 May and 20 June 1968 respectively. Solid line represents station 224; dashed line represents station 271. Depths of observations are indicated near observation points. The diagonal curves are isopleths of σ_t.

Figure 43. Variation in volume transports ($10^6 m^3/sec$) of the Labrador Current along Sections A2 and A3 during the 1968 Ice Patrol. The solid line denotes the transport of water colder than 2°C and fresher than 34‰; the dashed line denotes the total flow of the Labrador Current as defined in the text.

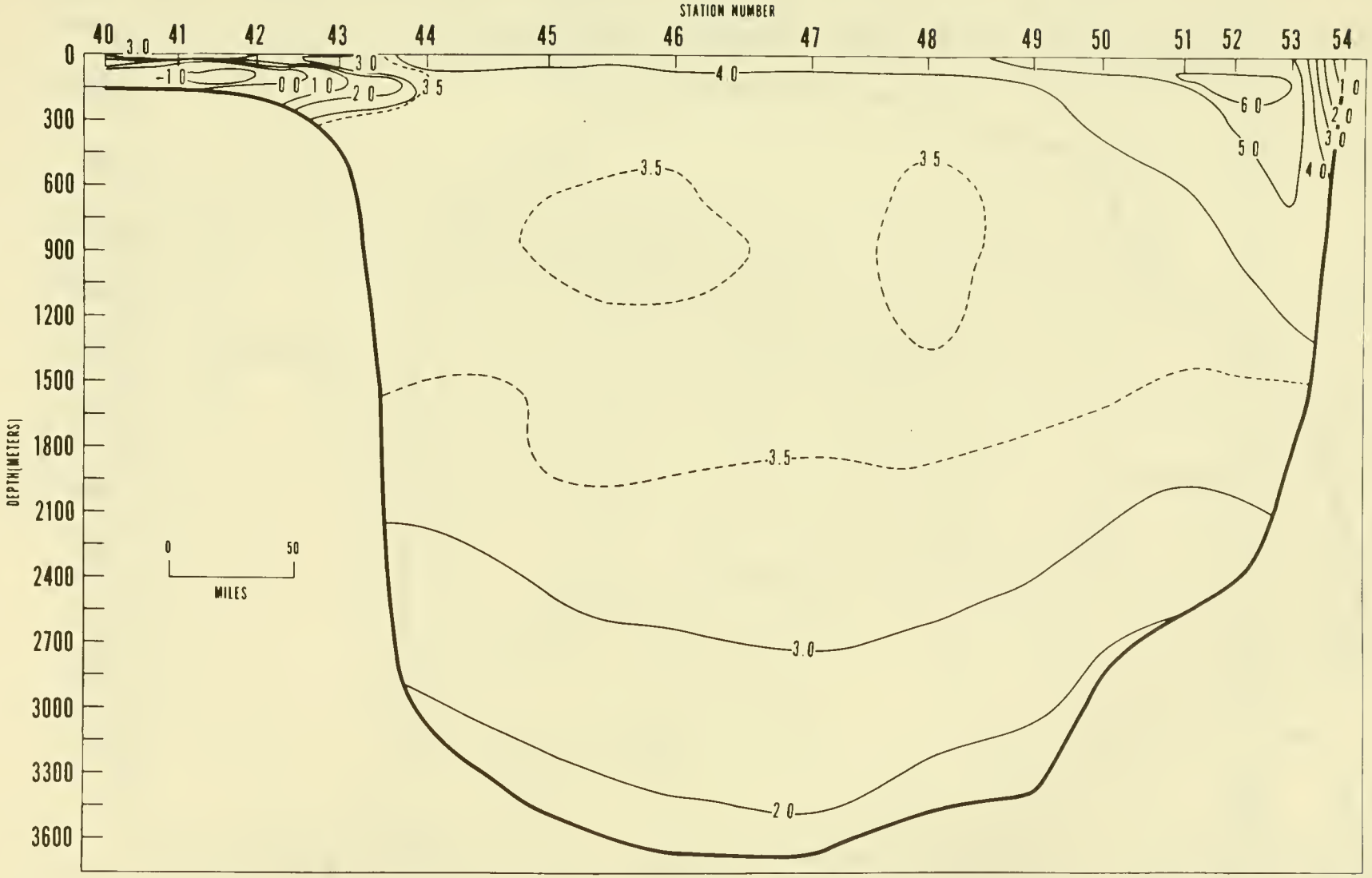

Figure 44. Temperature (°C) profile from South Wolf Island, Labrador to Cape Farewell, Greenland obtained by USCGC EASTWIND during 24–26 October 1968.

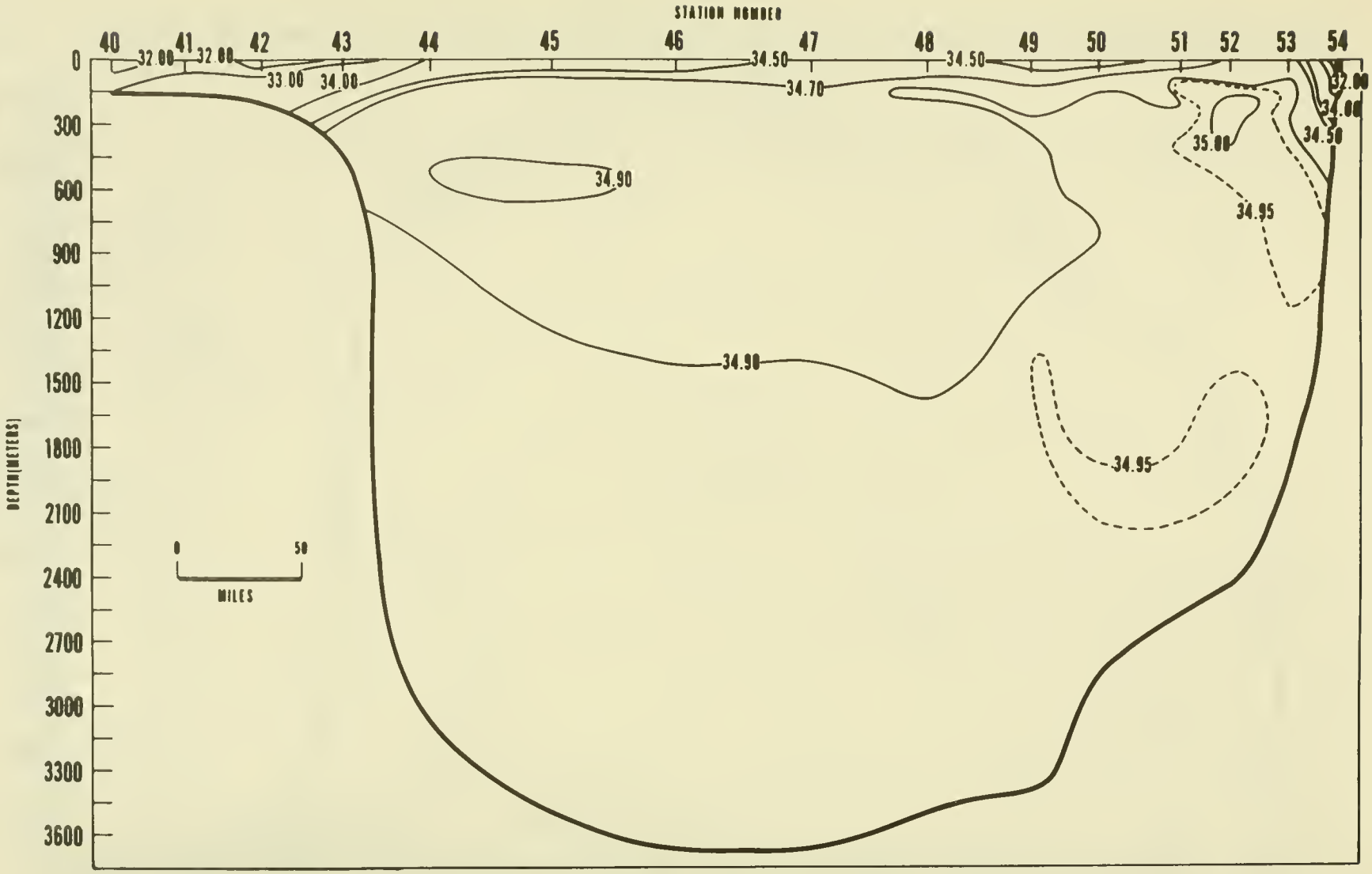

Figure 45. Salinity (°/oo) profile from South Wolf Island, Labrador to cape Farewell, Greenland obtained by USCGC EASTWIND during 24–26 October 1968.

APPENDIX A
OCEANOGRAPHIC DATA

A complete description of the codes utilized in the tabulation of oceanographic station data can be found in National Oceanographic Data Center publication M–2, *Processing Physical and Chemical Data from Oceanographic Stations.* (Rev. August 1964, supplement issued May 1966.)

To facilitate use of the oceanographic station data listing, entry headings which are not self-explanatory are described below.

Depth to Bottom ..... Corrected or uncorrected sounding in meters.
Max. Depth of Samples ..... Depth of deepest sample to nearest multiple of one hundred meters.
Wave observations:
- DIR ..... Rounded to nearest multiple of ten degrees.
- HGT ..... In increments of ½ m. Sum of 5 meters plus increments of ½ m if 50 is added to direction.
- PER ..... If numerals 2 through 9 are entered, period in seconds is twice the numeric entry or 2X (numeric entry) + 1. For other entries see WMO Code 3155.
- SEA ..... Sea state according to WMO Code 3700

Weather Code ..... If preceded by X, weather according to WMO Code 4501. If a two-digit entry, weather according to WMO Code 4677.
Cloud Code:
- Type ..... Cloud type according to WMO Code 0500.
- Amount ..... Cloud amount in eights. Entry of the numeral 9 indicates cloud amount could not be estimated.

Water:
- Color Code ..... Color according to Forel-Ule scale.
- Trans ..... Transparency in whole meters as determined by Secchi disc.

Wind:
- Dir ..... Rounded to nearest multiple of ten degrees.
- Speed or Force ..... If preceded by letter S, wind speed in knots; if preceded by letter F, wind force according to Beaufort scale.

Barometer ..... Barometric pressure given in tens, units and tenths of millibars.
Air Temp. ° C. ..... Air temperature to tenths of a degree centigrade.
Vis. Code ..... Visibility according to WMO Code 4300.
No obs. depths ..... Number of observed levels associated with the station.
Messenger time ..... Entered in hours and tenths of an hour GMT. For Nansen casts, indicates time of release of messenger applicable to the observational level. For STD casts, indicates the starting time of lowering the sensor.
Card type ..... OBS designates observed levels. STD indicates the values at this standard level were interpolated by a modified 3-point LaGrange formula.
Depth (m) ..... Depth to nearest meter. A postscript T indicates depth was obtained thermometrically; $\bar{3}$ indicates uncorrected "wire out" depth. Postscript Q indicates value was marked doubtful by originator; P indicates value was considered doubtful by NODC. Postscripts P and Q retain this meaning throughout the following entries.
T °C. ..... Temperature to hundredths of a degree Centigrade.
S °/oo ..... Salinity in parts-per-thousand.
SIGMA–T ..... Entered to hundredths.
Specific-volume ..... Multiply entry by 10^{-7} to obtain specific-volume anomaly in cubic centimeters per gram.
Anomaly—x 10^3 .....
$\Sigma\Delta D$ Dyn. M. x 10^3 ..... Multiply entry by 10^{-3} to obtain anomaly of dynamic height in dynamic meters referenced to the sea surface.
Sound Velocity ..... Sound velocity according to Wilson's formula entered to tenths of a meter per second.
O_2 ml/l ..... Dissolved oxygen in milliliters per liter entered to hundredths.
PO_4–P μg–at/l ..... Inorganic phosphate in microgram-atoms per liter entered to hundredths.
Total–P μg–at/l ..... Total phosphorus in microgram-atoms per liter entered to hundredths.
NO_2–N μg–at/l ..... Nitrite-nitrogen in microgram-atoms per liter entered to hundredths.
NO_3–N μg–at/l ..... Nitrate-nitrogen in microgram-atoms per liter entered to tenths.
SiO_4–Si μg–at/l ..... Silicate-silicon in microgram-atoms per liter entered to whole units.
pH ..... Entered to hundredths.

TABLE I. Observed and interpolated oceanographic data for stations taken by USCGC EVERGREEN during the 1968 International Ice Patrol, 2 April–27 June 1968, prepared from NODC listing No. 31-8039.

REFERENCE: Cty Code	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	48335N	046100W		149	86	04	02	237	1968	001	10041A	1737	1	06	4	3		X1	6	1		0001

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		13	S08	105	022	017	7	12	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4–P µg - at/l	TOTAL–P µg - at/l	NO_2–N µg - at/l	NO_3–N µg - at/l	SiO_4–Si µg - at/l	pH	SCC
		STD	0000	-0069	3334	2682	0012374	0000	14438								
237		OBS	0000	-0069	33342	2682			14438								
		STD	0010	-0075	3334	2682	0012369	0012	14437								
237		OBS	0010	-0075	33340	2682			14437								
		STD	0020	-0070	3342	2688	0011759	0024	14442								
237		OBS	0029	-0065	33521	2696			14447								
		STD	0030	-0060	3353	2697	0010924	0035	14450								
		STD	0050	0052	3385	2717	0009035	0055	14509								
237		OBS	0050	0052	33851	2717			14509								
237		OBS	0074	0207	34359	2747			14589								
		STD	0075	0211	3437	2748	0006153	0074	14591								
237		OBS	0098	0282	34567	2758			14629								
		STD	0100	0281	3457	2758	0005235	0089	14628								
		STD	0125	0265	3460	2762	0004859	0101	14626								
237		OBS	0148	0250	34634	2766			14624								
		STD	0150	0259	3465	2766	0004512	0113	14628								
237		OBS	T0198	0426	34853	2766			14710								
		STD	0200	0427	3486	2766	0004591	0136	14711								
		STD	0250	0445	3490	2768	0004482	0158	14727								
237		OBS	0298	0452	34930	2770			14738								
		STD	0300	0452	3493	2770	0004406	0180	14739								
237		OBS	T0393	0438	34935	2772			14748								
237		OBS	0597	0403	34914	2774			14767								
		STD	0600	0403	3491	2774			14768								
		STD	0700	0390	3491	2775			14779								
		STD	0800	0380	3491	2776			14791								
237		OBS	T0802	0380	34909	2776			14792								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	48335N	046100W		149	86	04	03	006	1968	001	10041B	1737	1	06	4	3		X1	0	3		0002

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	13	S08	105	022	017	7	23	

MESSENGR TIME OR HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCO
		STD	0000	-0064	3336	2683	0012283	0000	14441								
006		OBS	0000	-0064	33357	2683			14441								
		STD	0010	-0060	3351	2695	0011095	0011	14446								
		OBS	0010	-0060	33513	2695			14446								
		STD	0020	0037	3376	2711	0009623	0022	14496								
003		OBS	0020	0037	33763	2711			14496								
		OBS	0025	0038	33778	2712			14497								
		STD	0030	0054	3379	2712	0009524	0031	14506								
		OBS	0030	0054	33788	2712			14506								
		STD	0050	0188	3427	2742	0006707	0047	14576								
		OBS	0050	0188	34273	2742			14576								
		STD	0075	0277	3449	2752	0005760	0063	14622								
		OBS	0075	0277	34493	2752			14622								
		STD	0100	0326	3467	2762	0004859	0076	14649								
		OBS	0100	0326	34673	2762			14649								
		STD	0125	0367	3474	2764	0004748	0088	14672								
		OBS	0125	0367	34743	2764			14672								
		STD	0150	0428	3482	2764	0004792	0100	14703								
		OBS	0150	0428	34823	2764			14703								
		STD	0200	0460	3489	2765	0004697	0124	14725								
		OBS	0200	0460	34889	2765			14725								
		STD	0250	0462	3491	2767	0004628	0147	14734								
		OBS	0250	0462	34908	2767			14734								
		STD	0300	0456	3491	2768	0004571	0170	14740								
		OBS	0300	0456	34914	2768			14740								
		STD	0400	0437	3492	2771	0004410	0215	14749								
		OBS	0400	0437	34922	2771			14749								
		STD	0500	0426	3491	2771	0004456	0259	14761								
		OBS	0500	0426	34913	2771			14761								
		STD	0600	0409	3491	2773	0004398	0304	14770								
		OBS	0600	0409	34908	2773			14770								
		STD	0700	0397	3490	2773	0004385	0348	14782								
		OBS	0700	0397	34904	2773			14782								
		STD	0800	0381	3490	2775	0004313	0391	14792								
		OBS	0800	0381	34901	2775			14792								
		STD	0900	0376	3491	2776	0004293	0434	14806								
		OBS	0900	0376	34908	2776			14806								
		STD	1000	0375	3491	2777	0004325	0477	14823								
		OBS	1000	0375	34914	2777			14823								
		STD	1100	0366	3492	2778	0004237	0520	14836								
		OBS	1100	0366	34922	2778			14836								
		STD	1200	0362	3492	2779	0004256	0563	14851								
		OBS	1200	0362	34925	2779			14851								
		STD	1300	0351	3493	2780	0004181	0605	14863								
		OBS	1300	0351	34928	2780			14863								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	CHIEF INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4619 N	046090W		149	86	04	03	023	1968	001	10042	1189	1	07	4	3		X0	0	3		0003

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	13	S08	098	022	022	7	21	

MESSENGR TIME HR T/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	-0033	3339	2685	0012129	0000	14455								
023		OBS	0000	-0033	33393	2685			14455								
		STD	0010	-0024	3347	2691	0011548	0011	14462								
		OBS	0010	-0024	33473	2691			14462								
002		OBS	0017	-0042	33513	2695			14456								
		STD	0020	-0025	3362	2703	0010397	0022	14466								
		OBS	0020	-0025	33623	2703			14466								
		OBS	0025	0002	33673	2706			14480								
		STD	0030	0022	3378	2713	0009395	0032	14491								
		OBS	0030	0022	33783	2713			14491								
		STD	0050	0056	3392	2723	0008503	0050	14512								
		OBS	0050	0056	33923	2723			14512								
		STD	0075	0157	3434	2750	0005961	0068	14567								
		OBS	0075	0157	34343	2750			14567								
		STD	0100	0247	3450	2756	0005452	0083	14613								
		OBS	0100	0247	34503	2756			14613								
		STD	0125	0327	3467	2762	0004879	0095	14654								
		OBS	0125	0327	34674	2762			14654								
		STD	0150	0387	3478	2765	0004669	0107	14685								
		OBS	0150	0387	34783	2765			14685								
		STD	0200	0438	3486	2766	0004650	0131	14716								
		OBS	0200	0438	34863	2766			14716								
		STD	0250	0456	3490	2767	0004642	0154	14732								
		OBS	0250	0456	34898	2767			14732								
		STD	0300	0456	3491	2768	0004571	0177	14740								
		OBS	0300	0456	34914	2768			14740								
		STD	0400	0452	3493	2769	0004532	0222	14755								
		OBS	0400	0452	34928	2769			14755								
		STD	0500	0436	3493	2772	0004423	0267	14765								
		OBS	0500	0436	34932	2772			14765								
		STD	0600	0418	3493	2773	0004349	0311	14774								
		OBS	0600	0418	34928	2773			14774								
		STD	0700	0406	3492	2774	0004382	0355	14786								
		OBS	0700	0406	34918	2774			14786								
		STD	0800	0392	3491	2775	0004343	0398	14796								
		OBS	0800	0392	34914	2775			14796								
		STD	0900	0382	3491	2776	0004324	0442	14809								
		OBS	0900	0382	34913	2776			14809								
		STD	1000	0368	3491	2777	0004237	0484	14820								
		OBS	1000	0368	34914	2777			14820								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIFF INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEA-THER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47580N	046070W		149	76	04	03	044	1968	001	10043	1097	1	07	2	2		X0	0	3		0004

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	S0	13	S10	098	028	022	7	27	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$X10^7$	Σ Δ D DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0056	3358	2696	0011089	0000	14499								
044		OBS	0000	0056	33584	2696			14499								
		STD	0010	0087	3368	2702	0010511	0010	14516								
		OBS	0010	0087	33683	2702			14516								
		STD	0020	0087	3371	2704	0010276	0021	14518								
002		OBS	0020	0087	33713	2704			14518								
		OBS	0025	0097	33753	2707			14524								
		STD	0030	0127	3380	2709	0009846	0031	14539								
		OBS	0030	0127	33803	2709			14539								
		STD	0050	0186	3397	2718	0008963	0050	14571								
		OBS	0050	0186	33973	2718			14571								
		OBS	0052	0188	33993	2720			14572								
		OBS	0060	0147	33958	2720			14555								
		OBS	0068	0215	34023	2720			14587								
		STD	0075	0127	3394	2720	0008788	0072	14548								
		OBS	0075	0127	33943	2720			14548								
		STD	0100	0242	3428	2739	0007074	0092	14608								
		OBS	0100	0242	34283	2739			14608								
		STD	0125	0377	3465	2755	0005526	0107	14675								
		OBS	0125	0377	34652	2755			14675								
		STD	0150	0392	3468	2756	0005463	0121	14686								
		OBS	0150	0392	34683	2756			14686								
		OBS	0170	0426	34783	2761			14705								
		STD	0200	0422	3483	2765	0004706	0147	14708								
		OBS	0200	0422	34833	2765			14708								
		STD	0250	0408	3486	2769	0004388	0169	14711								
		OBS	0250	0408	34862	2769			14711								
		STD	0300	0398	3487	2770	0004286	0191	14715								
		OBS	0300	0398	34868	2770			14715								
		OBS	0356	0397	34871	2771			14724								
		OBS	0360	0416	34898	2771			14733								
		OBS	0390	0417	34923	2773			14739								
		STD	0400	0406	3491	2773	0004138	0233	14736								
		OBS	0400	0406	34912	2773			14736								
		STD	0500	0405	3491	2773	0004198	0275	14752								
		OBS	0500	0405	34915	2773			14752								
		STD	0600	0387	3491	2775	0004134	0316	14761								
		OBS	0600	0387	34910	2775			14761								
		STD	0700	0377	3491	2776	0004092	0358	14773								
		OBS	0700	0377	34913	2776			14773								
		STD	0800	0376	3491	2776	0004170	0399	14790								
		OBS	0800	0376	34913	2776			14790								
		STD	0900	0366	3491	2777	0004138	0440	14802								
		OBS	0900	0366	34913	2777			14802								
		STD	1000	0358	3492	2779	0004053	0481	14815								
		OBS	1000	0358	34923	2779			14815								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
3	318039	EV	4740 N	04606 W		149	76	04	03	064	1968	001	10044	0914	1	08	2	2		X6	0	3		0005

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	50	13	509	095	028	022	5	26	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCO
		STD	0000	0336	3371	2685	0012111	0000	14624								
		OBS	0000	0336	33713	2685			14624								
064		STD	0010	0072	3347	2686	0012021	0012	14506								
		OBS	0010	0072	33473	2686			14506								
		STD	0020	0058	3360	2697	0010989	0023	14503								
001		OBS	0020	0058	33598	2697			14503								
		OBS	0025	0057	33623	2699			14504								
		STD	0030	0057	3363	2699	0010771	0034	14505								
		OBS	0030	0057	33626	2699			14505								
		OBS	0041	0127	33831	2711			14541								
		STD	0050	0122	3386	2714	0009361	0054	14541								
		OBS	0050	0122	33863	2714			14541								
		OBS	0055	0205	33963	2716			14580								
		STD	0075	0205	3400	2719	0008912	0077	14583								
		OBS	0075	0205	33999	2719			14583								
		OBS	0090	0183	34082	2727			14577								
		STD	0100	0197	3420	2735	0007368	0097	14587								
		OBS	0100	0197	34197	2735			14587								
		OBS	0105	0287	34313	2737			14628								
		STD	0125	0357	3453	2748	0006258	0114	14665								
		OBS	0125	0357	34529	2748			14665								
		OBS	0132	0332	34533	2750			14655								
		OBS	0139	0398	34671	2755			14686								
		STD	0150	0381	3470	2759	0005261	0129	14681								
		OBS	0150	0381	34696	2759			14681								
		STD	0200	0441	3485	2764	0004796	0154	14717								
		OBS	0200	0441	34848	2764			14717								
		STD	0250	0449	3489	2767	0004584	0177	14729								
		OBS	0250	0449	34895	2767			14729								
		STD	0300	0418	3487	2768	0004516	0200	14724								
		OBS	0300	0418	34866	2768			14724								
		STD	0400	0426	3492	2771	0004310	0244	14744								
		OBS	0400	0426	34918	2771			14744								
		OBS	0487	0418	34915	2772			14755								
		STD	0500	0407	3490	2772	0004317	0287	14753								
		OBS	0500	0407	34903	2772			14753								
		OBS	0505	0396	34893	2773			14749								
		STD	0600	0388	3490	2774	0004233	0330	14761								
		OBS	0600	0388	34898	2774			14761								
		STD	0700	0384	3490	2775	0004238	0372	14776								
		OBS	0700	0384	34903	2775			14776								
		STD	0800	0377	3490	2775	0004252	0415	14790								
		OBS	0800	0377	34903	2775			14790								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
318039		EV	47190N	046040W		149	76	04	03	087	1968	001	10045	0384	1	31	4	2		X1	0	3		0006

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SO	31	S16	125	017	011	6	19	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOO
		STD	0000	0457	3371	2672	0013287	0000	14675								
087		OBS	0000	0457	33711	2672			14675								
		STD	0010	0457	3371	2672	0013288	0013	14677								
		OBS	0010	0457	33712	2672			14677								
		STD	0020	0450	3371	2673	0013225	0026	14676								
001		OBS	0020	0450	33713	2673			14676								
		OBS	0025	0444	33710	2674			14674								
		STD	0030	0444	3371	2674	0013188	0039	14675								
		OBS	0030	0444	33711	2674			14675								
		STD	0050	0444	3372	2675	0013125	0066	14678								
		OBS	0050	0444	33721	2675			14678								
		OBS	0062	0429	33855	2687			14676								
		STD	0075	0437	3403	2700	0010726	0095	14683								
		OBS	0075	0437	34034	2700			14683								
		STD	0100	0422	3425	2719	0008969	0120	14684								
		OBS	0100	0422	34251	2719			14684								
		STD	0125	0440	3445	2733	0007663	0141	14699								
		OBS	0125	0440	34453	2733			14699								
		STD	0150	0459	3459	2742	0006893	0159	14712								
		OBS	0150	0459	34586	2742			14712								
		OBS	0190	0492	34805	2755			14736								
		STD	0200	0457	3478	2757	0005496	0190	14722								
		OBS	0200	0457	34778	2757			14722								
		OBS	0221	0458	34813	2760			14727								
		OBS	0230	0495	34916	2764			14745								
		STD	0250	0491	3492	2764	0004870	0216	14747								
		OBS	0250	0491	34920	2764			14747								
		OBS	0272	0454	34887	2766			14734								
		STD	0300	0445	3488	2767	0004688	0240	14735								
		OBS	0300	0445	34882	2767			14735								
		OBS	0365	0436	34888	2768			14742								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
318039		EV	47020N	046028W		149	76	04	03	105	1968	001	10046	0324	1	31	3	2		X2	0	3		0007

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SO	31	S16	132	017	006	6	15	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOO
		STD	0000	0448	3381	2681	0012437	0000	14673								
105		OBS	0000	0448	33812	2681			14673								
		STD	0010	0450	3381	2681	0012446	0012	14675								
		OBS	0010	0450	33815	2681			14675								
		STD	0020	0450	3381	2681	0012456	0024	14677								
002		OBS	0020	0450	33815	2681			14677								
		OBS	0025	0449	33816	2682			14677								
		STD	0030	0448	3382	2682	0012438	0037	14678								
		OBS	0030	0448	33816	2682			14678								
		STD	0050	0437	3384	2685	0012175	0062	14677								
		OBS	0050	0437	33838	2685			14677								
		STD	0075	0395	3406	2707	0010105	0089	14666								
		OBS	0075	0395	34061	2707			14666								
		STD	0100	0432	3431	2723	0008619	0113	14689								
		OBS	0100	0432	34311	2723			14689								
		STD	0125	0472	3453	2736	0007420	0133	14713								
		OBS	0125	0472	34531	2736			14713								
		OBS	0127	0476	34553	2737			14715								
		OBS	0133	0449	34540	2739			14705								
		STD	0150	0452	3458	2742	0006900	0151	14709								
		OBS	0150	0452	34576	2742			14709								
		STD	0200	0462	3474	2754	0005796	0182	14724								
		OBS	0200	0462	34745	2754			14724								
		STD	0250	0451	3484	2763	0004989	0209	14729								
		OBS	0250	0451	34844	2763			14729								
		OBS	0285	0437	34853	2765			14729								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICAT.	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	4702 N	046208W		149	76	04	03	120	1968	001	10047	0302	1	30	2	2		X2	0	3		0008

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S18	146	028	006	7	18	

MESSENGR TIME HR 1/10	CAST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	$\Sigma\Delta D$ DYN. M. $x 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SUND
		STD	0000	0441	3360	2665	0013975	0000	14667								
120		OBS	0000	0441	33598	2665			14667								
		STD	0010	0448	3372	2674	0013116	0013	14673								
		OBS	0010	0448	33723	2674			14673								
		STD	0020	0449	3377	2678	0012763	0026	14676								
002		OBS	0020	0449	33773	2678			14676								
		OBS	0025	0450	33794	2680			14677								
		STD	0030	0447	3381	2682	0012438	0039	14677								
		OBS	0030	0447	33815	2682			14677								
		STD	0050	0441	3386	2686	0012031	0063	14679								
		OBS	0050	0441	33863	2686			14679								
		STD	0075	0439	3402	2699	0010835	0092	14684								
		OBS	0075	0439	34023	2699			14684								
		OBS	0085	0437	34265	2718			14688								
		STD	0100	0464	3435	2723	0008645	0116	14703								
		OBS	0100	0464	34353	2723			14703								
		OBS	0110	0472	34389	2724			14709								
		OBS	0120	0449	34413	2729			14701								
		STD	0125	0450	3445	2732	0007774	0137	14703								
		OBS	0125	0450	34453	2732			14703								
		STD	0150	0466	3456	2739	0007157	0155	14715								
		OBS	0150	0466	34562	2739			14715								
		OBS	0160	0451	34573	2741			14710								
		STD	0200	0465	3483	2760	0005167	0186	14726								
		OBS	0200	0465	34833	2760			14726								
		OBS	0235	0445	34804	2760			14723								
		STD	0250	0442	3481	2761	0005119	0212	14725								
		OBS	0250	0442	34813	2761			14725								
		OBS	0275	0440	34832	2763			14728								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4702 N	04635 W		149	76	04	03	133	1968	001	10048	0713	1	30	2	3		X2	0	3		0009

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	50	26	S20	152	033	011	7	24	

MESSENGR TIME OR HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0444	3368	2671	0013387	0000	14669								
133		OBS	0000	0444	33681	2671			14669								
		STD	0010	0444	3368	2672	0013360	0013	14671								
		OBS	0010	0444	33685	2672			14671								
		STD	0020	0443	3369	2672	0013315	0026	14672								
002		OBS	0020	0443	33691	2672			14672								
		OBS	0025	0443	33721	2675			14674								
		STD	0030	0442	3372	2675	0013070	0039	14674								
		OBS	0030	0442	33723	2675			14674								
		OBS	0032	0442	33741	2676			14675								
		OBS	0040	0416	33813	2685			14666								
		OBS	0047	0431	33941	2693			14675								
		STD	0050	0435	3391	2690	0011624	0064	14677								
		OBS	0050	0435	33909	2690			14677								
		OBS	0070	0437	34000	2697			14682								
		STD	0075	0425	3401	2700	0010751	0092	14678								
		OBS	0075	0425	34014	2700			14678								
		OBS	0088	0397	34060	2706			14669								
		OBS	0092	0407	34218	2718			14676								
		OBS	0097	0377	34197	2719			14664								
		STD	0100	0397	3426	2722	0008674	0116	14674								
		OBS	0100	0397	34256	2722			14674								
		OBS	0110	0427	34394	2730			14690								
		STD	0125	0427	3449	2737	0007244	0136	14694								
		OBS	0125	0427	34491	2737			14694								
		STD	0150	0442	3465	2749	0006211	0153	14706								
		OBS	0150	0442	34653	2749			14706								
		STD	0200	0457	3483	2761	0005091	0181	14723								
		OBS	0200	0457	34831	2761			14723								
		STD	0250	0442	3487	2766	0004696	0206	14726								
		OBS	0250	0442	34870	2766			14726								
		STD	0300	0430	3489	2769	0004498	0229	14729								
		OBS	0300	0430	34886	2769			14729								
		STD	0400	0416	3489	2771	0004381	0273	14740								
		OBS	0400	0416	34894	2771			14740								
		STD	0500	0403	3490	2773	0004276	0317	14751								
		OBS	0500	0403	34902	2773			14751								
		OBS	0555	0397	34901	2773			14758								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4702 N	04649 W		149	76	04	03	145	1968	001	10049	1189	1	29	2	2		X2	0	3		0010

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	24	S10	159	033	011	7	25	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta$ DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SEC
		STD	0000	-0002	3343	2687	0011949	0000	14470								
145		OBS	0000	-0002	33434	2687			14470								
		STD	0010	0032	3351	2691	0011549	0011	14488								
		OBS	0010	0032	33507	2691			14488								
		STD	0020	0045	3353	2692	0011404	0023	14496								
002		OBS	0020	0045	33535	2692			14496								
		OBS	0025	0046	33542	2693			14498								
		STD	0030	0048	3354	2693	0011376	0034	14500								
		OBS	0030	0048	33540	2693			14500								
		STD	0050	0075	3361	2697	0010980	0057	14516								
		OBS	0050	0075	33612	2697			14516								
		STD	0075	0165	3406	2727	0008128	0080	14567								
		OBS	0075	0165	34064	2727			14567								
		OBS	0090	0151	34120	2733			14564								
		STD	0100	0178	3424	2740	0006876	0099	14579								
		OBS	0100	0178	34243	2740			14579								
		STD	0125	0267	3448	2753	0005770	0115	14625								
		OBS	0125	0267	34485	2753			14625								
		STD	0150	0364	3467	2758	0005264	0129	14674								
		OBS	0150	0364	34673	2758			14674								
		OBS	0170	0415	34773	2761			14700								
		STD	0200	0437	3483	2763	0004866	0154	14715								
		OBS	0200	0437	34832	2763			14715								
		STD	0250	0453	3488	2766	0004703	0178	14730								
		OBS	0250	0453	34885	2766			14730								
		STD	0300	0453	3490	2767	0004613	0201	14739								
		OBS	0300	0453	34904	2767			14739								
		STD	0400	0430	3490	2770	0004475	0247	14746								
		OBS	0400	0430	34902	2770			14746								
		OBS	0450	0396	34870	2771			14739								
		STD	0500	0394	3487	2771	0004390	0291	14747								
		OBS	0500	0394	34873	2771			14747								
		STD	0600	0381	3488	2773	0004286	0334	14758								
		OBS	0600	0381	34881	2773			14758								
		STD	0700	0377	3490	2775	0004199	0377	14773								
		OBS	0700	0377	34898	2775			14773								
		STD	0800	0374	3489	2775	0004290	0419	14788								
		OBS	0800	0374	34893	2775			14788								
		STD	0900	0369	3489	2776	0004313	0462	14803								
		OBS	0900	0369	34894	2776			14803								
		STD	1000	0365	3490	2777	0004291	0505	14818								
		OBS	1000	0365	34902	2777			14818								
		STD	1100	0361	3491	2778	0004250	0548	14833								
		OBS	1100	0361	34913	2778			14833								
		OBS	1150	0361	34916	2778			14842								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DIRECT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4702 N	047045W		149	77	04	03	155	1968	001	10050	1079	1	29	2	2		X1	0	3		0011

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S12	166	028	011	7	23	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔO DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	CODE
		STD	0000	-0063	3325	2675	0013079	0000	14440								
155		OBS	0000	-0063	33253	2675			14440								
		STD	0010	-0103	3324	2675	0013028	0013	14422								
		OBS	0010	-0103	33241	2675			14422								
		STD	0020	-0111	3326	2677	0012878	0026	14421								
002		OBS	0020	-0111	33257	2677			14421								
		OBS	0025	-0112	33293	2680			14421								
		STD	0030	-0112	3332	2682	0012402	0038	14423								
		OBS	0030	-0112	33318	2682			14423								
		OBS	0040	-0104	33368	2685			14429								
		STD	0050	-0056	3353	2697	0010944	0062	14455								
		OBS	0050	-0056	33533	2697			14455								
		STD	0075	0066	3401	2730	0007882	0085	14522								
		OBS	0075	0066	34013	2730			14522								
		STD	0100	0219	3438	2748	0006130	0103	14599								
		OBS	0100	0219	34383	2748			14599								
		STD	0125	0304	3455	2754	0005620	0117	14642								
		OBS	0125	0304	34548	2754			14642								
		STD	0150	0359	3465	2757	0005361	0131	14671								
		OBS	0150	0359	34653	2757			14671								
		OBS	0179	0416	34779	2762			14702								
		STD	0200	0424	3480	2762	0004967	0157	14709								
		OBS	0200	0424	34801	2762			14709								
		OBS	0230	0417	34803	2763			14711								
		STD	0250	0432	3484	2765	0004789	0181	14721								
		OBS	0250	0432	34843	2765			14721								
		STD	0300	0442	3488	2767	0004632	0205	14734								
		OBS	0300	0442	34885	2767			14734								
		STD	0400	0435	3490	2769	0004507	0250	14748								
		OBS	0400	0435	34905	2769			14748								
		STD	0500	0423	3491	2771	0004434	0295	14759								
		OBS	0500	0423	34911	2771			14759								
		STD	0600	0400	3490	2773	0004331	0339	14766								
		OBS	0600	0400	34903	2773			14766								
		STD	0700	0377	3488	2773	0004351	0382	14773								
		OBS	0700	0377	34878	2773			14773								
		STD	0800	0372	3489	2775	0004313	0426	14788								
		OBS	0800	0372	34887	2775			14788								
		STD	0900	0366	3489	2776	0004289	0469	14802								
		OBS	0900	0366	34893	2776			14802								
		STD	1000	0361	3490	2777	0004264	0511	14816								
		OBS	1000	0361	34899	2777			14816								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4702 N	04722 W		149	77	04	03	170	1968	001	10051	0267	1	22	2	2		X1	0	3		0012

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	21	S06	163	028	011	7	19	

MESSENGR TIME OR NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SUD
		STD	0000	-0083	3293	2650	0015459	0000	14426								
170		OBS	0000	-0083	32934	2650			14426								
		STD	0010	-0115	3291	2649	0015507	0015	14412								
		OBS	0010	-0115	32914	2649			14412								
		STD	0020	-0103	3298	2654	0015040	0030	14420								
002		OBS	0020	-0103	32978	2654			14420								
		OBS	0025	-0097	32996	2655			14424								
		STD	0030	-0124	3301	2657	0014688	0045	14413								
		OBS	0030	-0124	33015	2657			14413								
		OBS	0039	-0116	33173	2670			14420								
		OBS	0043	-0055	33253	2674			14450								
		STD	0050	-0036	3329	2677	0012862	0073	14461								
		OBS	0050	-0036	33293	2677			14461								
		OBS	0055	-0033	33303	2677			14463								
		OBS	0061	-0086	33289	2678			14439								
		STD	0075	-0103	3333	2683	0012278	0104	14434								
		OBS	0075	-0103	33334	2683			14434								
		OBS	0079	-0103	33392	2687			14436								
		OBS	0092	0001	33529	2694			14488								
		STD	0100	0015	3359	2698	0010837	0133	14497								
		OBS	0100	0015	33588	2698			14497								
		OBS	0105	0003	33682	2706			14493								
		STD	0125	0106	3407	2732	0007672	0156	14549								
		OBS	0125	0106	34073	2732			14549								
		STD	0150	0183	3422	2738	0007121	0175	14589								
		OBS	0150	0183	34218	2738			14589								
		STD	0200	0251	3443	2749	0006104	0208	14630								
		OBS	0200	0251	34428	2749			14630								
		OBS	0240	0317	34600	2757			14667								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4702 N	047369W		149	77	04	03	182	1968	001	10052	0201	1	22	2	2		X1	0	3		0013

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	22	S06	169	028	011	7	14	

MESSENGR TIME OR NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SUD
		STD	0000	-0050	3267	2627	0017568	0000	14438								
182		OBS	0000	-0050	32673	2627			14438								
		STD	0010	-0064	3268	2629	0017436	0017	14433								
		OBS	0010	-0064	32683	2629			14433								
		STD	0020	-0069	3270	2630	0017259	0034	14432								
001		OBS	0020	-0069	32703	2630			14432								
		OBS	0025	-0082	32703	2631			14427								
		STD	0030	-0089	3272	2633	0017034	0052	14425								
		OBS	0030	-0089	32723	2633			14425								
		STD	0050	-0103	3284	2643	0016070	0085	14423								
		OBS	0050	-0103	32842	2643			14423								
		OBS	0062	-0098	32913	2648			14429								
		OBS	0065	-0133	32913	2649			14413								
		STD	0075	-0112	3303	2659	0014562	0123	14426								
		OBS	0075	-0112	33033	2659			14426								
		OBS	0087	-0023	33173	2667			14471								
		STD	0100	0001	3327	2674	0013152	0158	14486								
		OBS	0100	0001	33274	2674			14486								
		STD	0125	0043	3348	2688	0011780	0189	14512								
		OBS	0125	0043	33482	2688			14512								
		STD	0150	0083	3374	2707	0010036	0216	14538								
		OBS	0150	0083	33743	2707			14538								
		OBS	0180	0120	33918	2718			14562								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44384N	049201W		149	49	04	04	173	1968	001	10053	0060	1	23	2	2		X2	0	3		0014

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	24	S12	213	022	011	7	06	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D OYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	0104	3286	2635	0016844	0000	14511								
173		OBS	0000	0104	32863	2635			14511								
		STD	0010	0104	3286	2635	0016844	0016	14512								
		OBS	0010	0104	32863	2635			14512								
		STD	0020	0093	3286	2635	0016824	0033	14509								
001		OBS	0020	0093	32858	2635			14509								
		OBS	0025	0090	32865	2636			14508								
		STD	0030	0089	3287	2636	0016724	0050	14509								
		OBS	0030	0089	32868	2636			14509								
		STD	0050	0089	3287	2637	0016686	0083	14512								
		OBS	0050	0089	32872	2637			14512								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44365N	04912 W		149	49	04	04	176	1968	001	10054	0064	1	22	2	2		X6	0	3		0015

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	23	S15	159	222	111	7	06	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D OYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	0107	3288	2636	0016735	0000	14512								
176		OBS	0000	0107	32880	2636			14512								
		STD	0010	0093	3288	2637	0016635	0016	14508								
		OBS	0010	0093	32883	2637			14508								
		STD	0020	0091	3288	2637	0016607	0033	14508								
001		OBS	0020	0091	32885	2637			14508								
		OBS	0025	0090	32886	2638			14509								
		STD	0030	0090	3289	2638	0016570	0049	14510								
		OBS	0030	0090	32889	2638			14510								
		STD	0050	0089	3289	2638	0016541	0083	14512								
		OBS	0050	0089	32891	2638			14512								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44365N	04912 W		149	49	04	04	179	1968	001	10055	0062	1	22	2	2		X1	0	3		0016

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	23	S15	159	222	111	7	06	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D OYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	0066	3285	2636	0016717	0000	14493								
179		OBS	0000	0066	32852	2636			14493								
		STD	0010	0059	3284	2636	0016743	0016	14492								
		OBS	0010	0059	32844	2636			14492								
		STD	0020	0048	3286	2638	0016559	0033	14488								
001		OBS	0020	0048	32860	2638			14488								
		OBS	0025	0048	32855	2637			14489								
		STD	0030	0053	3285	2637	0016621	0050	14492								
		OBS	0030	0053	32855	2637			14492								
		STD	0050	0064	3288	2639	0016483	0083	14501								
		OBS	0050	0064	32881	2639			14501								

REFERENCE CTRY CODE	REFERENCE ID. ND.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DUPL INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NDOC STATION NUMBER
318039		EV	44365N	04912 W		149	49	04	04	182	1968	001	10056	0280	1	22	2	2		X1	0	3		0017

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	23	S15	159	222	111	7	15	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	SCD
		STD	0000	0016	3281	2635	0016826	0000	14470								
182		OBS	0000	0016	32806	2635			14470								
		STD	0010	0010	3280	2635	0016841	0016	14469								
		OBS	0010	0010	32800	2635			14469								
		STD	0020	0006	3281	2636	0016756	0033	14469								
001		OBS	0020	0006	32808	2636			14469								
		OBS	0025	0006	32813	2636			14469								
		STD	0030	0005	3281	2636	0016726	0050	14470								
		OBS	0030	0005	32811	2636			14470								
		STD	0050	0004	3281	2636	0016710	0083	14473								
		OBS	0050	0004	32812	2636			14473								
		STD	0075	0000	3289	2643	0016086	0124	14476								
		OBS	0075	0000	32890	2643			14476								
		STD	0100	0001	3297	2649	0015491	0164	14482								
		OBS	0100	0001	32968	2649			14482								
		OBS	0106	0001	32987	2650			14483								
		STD	0125	0054	3357	2695	0011162	0197	14518								
		OBS	0125	0054	33572	2695			14518								
		STD	0150	0099	3384	2714	0009358	0223	14547								
		OBS	0150	0099	33845	2714			14547								
		STD	0200	0162	3412	2732	0007704	0265	14587								
		OBS	0200	0162	34122	2732			14587								
		OBS	0220	0171	34190	2737			14595								
		STD	0250	0270	3448	2752	0005910	0299	14647								
		OBS	0250	0270	34480	2752			14647								
		OBS	0255	0284	34518	2754			14655								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MD	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44359N	049080W		149	49	04	04	185	1968	001	10057	0750	1	24	2	2		X2	0	3		0018

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	24	S14	220	022	011	7	24	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0024	3278	2633	0017034	0000	14473								
185		OBS	0000	0024	32783	2633			14473								
		STD	0010	0017	3278	2633	0017022	0017	14472								
		OBS	0010	0017	32780	2633			14472								
		STD	0020	0006	3280	2635	0016838	0034	14468								
002		OBS	0020	0006	32798	2635			14468								
		OBS	0025	0017	32811	2636			14474								
		STD	0030	0035	3282	2635	0016783	0050	14484								
		OBS	0030	0035	32822	2635			14484								
		STD	0050	0029	3282	2636	0016741	0084	14484								
		OBS	0050	0029	32823	2636			14484								
		OBS	0068	0029	32835	2637			14487								
		OBS	0073	0014	32847	2639			14481								
		STD	0075	0014	3288	2641	0016234	0125	14482								
		OBS	0075	0014	32879	2641			14482								
		OBS	0086	0013	32884	2642			14484								
		STD	0100	-0007	3306	2657	0014730	0164	14479								
		OBS	0100	-0007	33062	2657			14479								
		OBS	0106	-0007	33189	2667			14482								
		OBS	0120	0057	33604	2697			14519								
		STD	0125	0063	3363	2699	0010813	0196	14523								
		OBS	0125	0063	33625	2699			14523								
		STD	0150	0097	3384	2714	0009348	0221	14546								
		OBS	0150	0097	33845	2714			14546								
		OBS	0170	0157	34048	2726			14579								
		STD	0200	0180	3417	2734	0007488	0263	14595								
		OBS	0200	0180	34168	2734			14595								
		STD	0250	0237	3435	2744	0006581	0298	14631								
		OBS	0250	0237	34352	2744			14631								
		STD	0300	0309	3453	2753	0005898	0329	14673								
		OBS	0300	0309	34533	2753			14673								
		STD	0400	0397	3476	2762	0005151	0385	14730								
		OBS	0400	0397	34763	2762			14730								
		STD	0500	0420	3484	2766	0004932	0435	14757								
		OBS	0500	0420	34840	2766			14757								
		STD	0600	0422	3486	2767	0004917	0484	14775								
		OBS	0600	0422	34858	2767			14775								
		STD	0700	0422	3487	2768	0004899	0533	14792								
		OBS	0700	0422	34874	2768			14792								
		OBS	0718	0420	34873	2769			14794								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44355N	049043W		149	49	04	04	193	1968	001	10058	1240	1	24	2	2		X1	0	3		0019

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	24	S14	220	360	340	7	26	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	$\Sigma\Delta$ DYN. M. $x 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0020	3280	2634	0016889	0000	14472								
193		OBS	0000	0020	32800	2634			14472								
		STD	0010	0014	3280	2635	0016859	0016	14470								
		OBS	0010	0014	32800	2635			14470								
		STD	0020	0005	3282	2637	0016666	0033	14468								
002		OBS	0020	0005	32819	2637			14468								
		OBS	0025	0004	32819	2637			14469								
		STD	0030	0000	3283	2638	0016526	0050	14468								
		OBS	0030	0000	32835	2638			14468								
		STD	0050	0002	3291	2644	0015950	0082	14473								
		OBS	0050	0002	32910	2644			14473								
		STD	0075	-0006	3315	2664	0014079	0120	14477								
		OBS	0075	-0006	33150	2664			14477								
		STD	0100	0006	3346	2688	0011764	0152	14491								
		OBS	0100	0006	33460	2688			14491								
		OBS	0110	0020	33600	2699			14501								
		STD	0125	0085	3398	2726	0008242	0177	14538								
		OBS	0125	0085	33980	2726			14538								
		STD	0150	0101	3402	2728	0008061	0197	14550								
		OBS	0150	0101	3382P	2712P											
		OBS	0187	0144	34075	2729			14576								
		STD	0200	0205	3426	2740	0006988	0235	14608								
		OBS	0200	0205	34260	2740			14608								
		STD	0250	0295	3452	2753	0005818	0267	14659								
		OBS	0250	0295	34522	2753			14659								
		STD	0300	0342	3465	2759	0005348	0295	14689								
		OBS	0300	0342	34649	2759			14689								
		OBS	0330	0361	34731	2763			14703								
		OBS	0350	0402	34786	2764			14724								
		STD	0400	0411	3483	2766	0004824	0346	14737								
		OBS	0400	0411	34827	2766			14737								
		OBS	0460	0420	34850	2767			14751								
		STD	0500	0442	3489	2768	0004797	0394	14767								
		OBS	0500	0442	34891	2768			14767								
		STD	0600	0431	3490	2770	0004689	0441	14779								
		OBS	0600	0431	34902	2770			14779								
		STD	0700	0429	3491	2771	0004680	0488	14795								
		OBS	0700	0429	34914	2771			14795								
		STD	0800	0427	3492	2772	0004687	0535	14811								
		OBS	0800	0427	34924	2772			14811								
		STD	0900	0410	3491	2773	0004678	0582	14820								
		OBS	0900	0410	34910	2773			14820								
		STD	1000	0400	3492	2775	0004553	0628	14833								
		OBS	1000	0400	34923	2775			14833								
		STD	1100	0397	3493	2775	0004567	0674	14849								
		OBS	1100	0397	34929	2775			14849								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44348N	049011W		149	49	04	04	200	1968	001	10059	1207	1	24	2	2		X2	0	3		0020

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	24	S14	220	022	011	7	20	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCO
		STD	0000	0022	3277	2632	0017125	0000	14472								
200		OBS	0000	0022	32771	2632			14472								
		STD	0010	0018	3275	2631	0017248	0017	14472								
		OBS	0010	0018	32751	2631			14472								
		STD	0020	0007	3283	2637	0016611	0034	14469								
002		OBS	0020	0007	32828	2637			14469								
		OBS	0025	0006	32848	2639			14470								
		STD	0030	0012	3286	2640	0016401	0050	14474								
		OBS	0030	0012	32858	2640			14474								
		STD	0050	-0008	3299	2651	0015270	0082	14470								
		OBS	0050	-0008	32993	2651			14470								
		STD	0075	-0010	3322	2670	0013500	0118	14476								
		OBS	0075	-0010	33223	2670			14476								
		STD	0100	0017	3363	2702	0010503	0148	14498								
		OBS	0100	0017	33633	2702			14498								
		STD	0125	0087	3385	2715	0009225	0172	14537								
		OBS	0125	0087	33853	2715			14537								
		STD	0150	0107	3392	2720	0008820	0195	14551								
		OBS	0150	0107	33923	2720			14551								
		STD	0200	0167	3417	2736	0007355	0235	14590								
		OBS	0200	0167	34173	2736			14590								
		STD	0250	0296	3457	2757	0005441	0267	14660								
		OBS	0250	0296	34573	2757			14660								
		STD	0300	0406	3477	2762	0005082	0294	14717								
		OBS	0300	0406	34773	2762			14717								
		STD	0400	0436	3486	2766	0004839	0343	14748								
		OBS	0400	0436	34863	2766			14748								
		STD	0500	0437	3488	2768	0004800	0392	14765								
		OBS	0500	0437	34883	2768			14765								
		STD	0600	0436	3491	2770	0004678	0439	14781								
		OBS	0600	0436	34912	2770			14781								
		STD	0700	0412	3490	2772	0004571	0485	14788								
		OBS	0700	0412	34902	2772			14788								
		STD	0800	0403	3490	2773	0004551	0531	14801								
		OBS	0800	0403	34903	2773			14801								
		STD	0900	0398	3490	2773	0004599	0577	14815								
		OBS	0900	0398	34902	2773			14815								
		STD	1000	0392	3490	2774	0004605	0623	14829								
		OBS	1000	0392	34903	2774			14829								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44343N	04858 W		149	48	04	04	205	1968	001	10060	1829	1	25	4	3		X2	7	8		0021

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		27	S10	244	017	006	7	09	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCO
		STD	0000	0013	3276	2632	0017125	0000	14468								
205		OBS	0000	0013	32960	2648Q											
205		OBS	0008	0014	32765	2632			14470								
		STD	0010	0012	3277	2632	0017113	0017	14469								
		STD	0020	0004	3277	2633	0017064	0034	14467								
205		OBS	0023	0001	32767	2633			14466								
		STD	0030	-0045	3283	2639	0016405	0050	14447								
205		OBS	0041	-0085													
		STD	0050	-0074	3299	2654	0014999	0082	14439								
205		OBS	0061	-0060	33086	2661			14449								
		STD	0075	-0043	3321	2670	0013484	0117	14461								
205		OBS	0081	-0035	33253	2673			14466								
		STD	0100	-0007	3337	2682	0012356	0150	14484								
205		OBS	0121	0031	33505	2691			14506								
		STD	0125	0043	3353	2692	0011419	0180	14513								
		STD	0150	0104	3368	2700	0010639	0207	14546								
205		OBS	0161	0123	32760	26250											
		STD	0200	0123	3397	2722	0008610	0255	14567								
205		OBS	T0241	0123	34186	2740			14577								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDEX	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	44325N	04849 W		149	48	04	04	230	1968	001	10061	2377	1	28	2	2		X2	7	8		0022

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		28	S10	244	033	017	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	-0003	3314	2663	0014219	0000	14466								
230		OBS	0000	-0003	33136	2663			14466								
230		OBS	0007	-0003	33129	2662			14467								
		STD	0010	-0011	3313	2663	0014189	0014	14464								
230		OBS	0019	-0027	33152	2665			14458								
		STD	0020	-0027	3316	2666	0013895	0028	14458								
		STD	0030	-0027	3327	2675	0013069	0041	14461								
230		OBS	0041	-0028	33372	2683			14464								
		STD	0050	-0021	3341	2685	0012042	0066	14469								
230		OBS	0073	-0004	33563	2697			14483								
		STD	0075	0002	3358	2698	0010820	0095	14487								
230		OBS	0086	0036	33691	2705			14505								
		STD	0100	0082	3387	2717	0009051	0120	14531								
		STD	0125	0158	3414	2733	0007545	0141	14573								
230		OBS	T0129	0170	34173	2735			14579								
		STD	0150	0229	3432	2742	0006725	0158	14611								
230		OBS	0166	0268	34414	2747			14632								
		STD	0200	0317	3455	2753	0005787	0190	14660								
		STD	0250	0372	3470	2760	0005247	0217	14694								
230		OBS	T0252	0374	34703	2760			14695								
		STD	0300	0403	3478	2763	0004981	0243	14716								
230		OBS	0333	0418	34819	2764			14729								
		STD	^400	0431	3481	2762	0005184	0294	14745								
		STD	^500	0437	3479	2760	0005462	0347	14764								
230		OBS	T^500	0437	34794	2760			14764								
		STD	^600	0418	3488	2769	0004706	0398	14774								
230		OBS	^678	0405	34917	2774			14781								
		STD	^700	0401	3491	2774	0004355	0443	14783								
		STD	^800	0385	3490	2774	0004357	0487	14793								
230		OBS	^859	0380	34899	2775			14801								
		STD	^900	0381	3490	2775	0004410	0530	14808								
		STD	^000	0382	3491	2775	0004440	0575	14825								
230		OBS	T^050	0383	34918	2776			14834								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DATE INDICATOR	MARSOEN SQUARE 10°	MARSOEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	44295N	04834 W		149	48	04	05	018	1968	001	10062	3383	1	27	1	2		X1	6	1		0023

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		27	S10	251	028	017	7	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	
		STD	0000	0581	3392	2675	0013070	0000	14729								
018		OBS	0000	0581	33923	2675			14729								
		STD	0010	0638	3403	2676	0012948	0013	14755								
018		OBS	0011	0645	34068	2678			14758								
		STD	0020	0912	3478	2695	0011220	0025	14872								
018		OBS	0025		35058												
		STD	0030	1105	3517	2692	0011505	0036	14949								
018		OBS	0049	1177	35236	2683			14978								
		STD	0050	1150	3519	2685	0012226	0060	14968								
018		OBS	0074	0679	34402	2700			14787								
		STD	0075	0672	3440	2700	0010759	0088	14784								
018		OBS	0098	0560	34290	2706			14741								
		STD	0100	0568	3429	2705	0010285	0115	14745								
		STD	0125	0636	3432	2699	0010923	0141	14777								
018		OBS	0148	0641	3497P	2750P											
		STD	0150	0632	3436	2703	0010632	0168	14780								
018		OBS	0197	0470	34454	2730			14723								
		STD	0200	0470	3447	2731	0007969	0215	14723								
		STD	0250	0467	3464	2745	0006698	0251	14733								
018		OBS	0296	0464	34752	2754			14741								
		STD	0300	0464	3476	2755	0005834	0283	14741								
018		OBS	T0396	0459	34850	2762			14756								
018		OBS	T0597	0459	34959	2771			14791								
		STD	0600	0459	3496	2771			14791								
		STD	0700	0442	3496	2773			14801								
018		OBS	T0791	0428	34959	2775			14810								
		STD	0800	0426	3496	2775			14811								
		STD	0900	0409	3495	2775			14821								
018		OBS	0999	0396	34937	2776			14831								
		STD	1000	0396	3494	2776			14832								
		STD	1100	0386	3493	2777			14844								
		STD	1200	0379	3493	2777			14858								
018		OBS	T1202	0379	34927	2777			14858								

REFERENCE CTRY CODE	REFERENCE ID. ND.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	COMPUTER INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE ND.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44265N	048173W		149	48	04	05	036	1968	001	10063	3475	1	27	1	2		X1	0	3		0024

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	S0	28	S10	251	039	017	7	34	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SOC
		STD	0000	1367	3580	2689	0011686	0000	15041								
036		OBS	0000	1367	35801	2689			15041								
		STD	0010	1368	3580	2689	0011733	0011	15043								
		OBS	0010	1368	35802	2689			15043								
		STD	0020	1368	3580	2689	0011762	0023	15045								
002		OBS	0020	1368	35802	2689			15045								
		OBS	0025	1368	35804	2689			15045								
		STD	0030	1368	3580	2689	0011773	0035	15046								
		OBS	0030	1368	35804	2689			15046								
		STD	0050	1368	3580	2689	0011830	0058	15049								
		OBS	0050	1368	35804	2689			15049								
		STD	0075	1367	3580	2689	0011893	0088	15053								
		OBS	0075	1367	35803	2689			15053								
		STD	0100	1318	3566	2689	0012019	0118	15039								
		OBS	0100	1318	35663	2689			15039								
		STD	0125	1187	3539	2693	0011616	0147	14996								
		OBS	0125	1187	35389	2693			14996								
		STD	0150	1092	3520	2697	0011328	0176	14964								
		OBS	0150	1092	35205	2697			14964								
		OBS	0160	1057	35233	2705			14954								
		OBS	0165	1087	35282	2704			14966								
		OBS	0180	0927	34936	2704			14906								
		OBS	0192	1034	35178	2705			14950								
		STD	0200	0997	3512	2707	0010480	0231	14937								
		OBS	0200	0997	35116	2707			14937								
		OBS	0235	0799	34843	2717			14865								
		STD	0250	0952	3518	2719	0009387	0280	14930								
		OBS	0250	0952	35178	2719			14930								
		OBS	0255	0952	35179	2719			14930								
		STD	0300	0824	3506	2730	0008370	0325	14888								
		OBS	0300	0824	35057	2730			14888								
		OBS	0335	0702	34928	2738			14845								
		OBS	0350	0746	35109	2746			14867								
		STD	0400	0492	3473	2749	0006453	0399	14769								
		OBS	0400	0492	34733	2749			14769								
		OBS	0420	0606	34940	2752			14821								
		STD	0500	0547	3496	2761	0005530	0459	14811								
		OBS	0500	0547	34963	2761			14811								
		STD	0600	0496	3497	2768	0004925	0511	14807								
		OBS	0600	0496	34975	2768			14807								
		STD	0700	0456	3495	2771	0004734	0559	14807								
		OBS	0700	0456	34951	2771			14807								
		STD	0800	0436	3495	2773	0004588	0606	14815								
		OBS	0800	0436	34951	2773			14815								
		STD	0900	0422	3494	2774	0004580	0652	14826								
		OBS	0900	0422	34943	2774			14826								
		STD	1000	0427	3497	2776	0004503	0697	14845								
		OBS	1000	0427	34975	2776			14845								
		STD	1100	0397	3495	2777	0004434	0742	14849								
		OBS	1100	0397	34947	2777			14849								
		STD	1200	0397	3495	2777	0004481	0786	14866								
		OBS	1200	0397	34953	2777			14866								
		STD	1300	0386	3495	2778	0004440	0831	14878								
		OBS	1300	0386	34952	2778			14878								
		STD	1400	0378	3495	2779	0004448	0875	14891								
		OBS	1400	0378	34948	2779			14891								
		STD	1500	0372	3495	2779	0004467	0920	14905								
		OBS	1500	0372	34947	2779			14905								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	44238N	048030W		149	48	04	05	053	1968	001	10064	3640	1	27	2	2		X1	0	3		0025

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	50	28	S10	261	028	028	7	37	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	S C C
		STD	0000	1388	3587	2690	0011605	0000	15049								
053		OBS	0000	1388	35870	2690			15049								
		STD	0010	1388	3587	2690	0011634	0011	15050								
		OBS	0010	1388	35870	2690			15050								
		STD	0020	1388	3587	2690	0011663	0023	15052								
002		OBS	0020	1388	35870	2690			15052								
		OBS	0025	1388	35870	2690			15053								
		STD	0030	1388	3587	2690	0011692	0034	15054								
		OBS	0030	1388	35870	2690			15054								
		STD	0050	1388	3587	2690	0011751	0058	15057								
		OBS	0050	1388	35869	2690			15057								
		STD	0075	1388	3587	2690	0011814	0087	15061								
		OBS	0075	1388	35871	2690			15061								
		STD	0100	1396	3588	2689	0011978	0117	15068								
		OBS	0100	1396	35881	2689			15068								
		STD	0125	1396	3588	2690	0012033	0147	15072								
		OBS	0125	1396	35883	2690			15072								
		OBS	0130	1277	35593	2692			15030								
		STD	0150	1242	3553	2694	0011677	0177	15020								
		OBS	0150	1242	35529	2694			15020								
		OBS	0165	1176	35401	2696			14999								
		OBS	0196	1158	35423	2702			14998								
		STD	0200	1117	3536	2705	0010725	0233	14983								
		OBS	0200	1117	35363	2705			14983								
		OBS	0211	1017	35218	2711			14947								
		STD	0250	0992	3517	2712	0010073	0285	14944								
		OBS	0250	0992	35175	2712			14944								
		OBS	0260	0952	35156	2717			14931								
		OBS	0285	0967	35243	2722			14942								
		STD	0300	0922	3520	2726	0008845	0332	14927								
		OBS	0300	0922	35200	2726			14927								
		OBS	0331	0884	35152	2728			14917								
		OBS	0363	0697	34912	2737			14848								
		STD	0400	0616	3482	2741	0007358	0413	14821								
		OBS	0400	0616	34819	2741			14821								
		OBS	0410	0586	34823	2745			14810								
		OBS	0450	0615	34973	2753			14830								
		OBS	0475	0536	34923	2759			14802								
		STD	0500	0557	3494	2758	0005837	0479	14815								
		OBS	0500	0557	34939	2758			14815								
		STD	0600	0487	3496	2768	0004903	0533	14803								
		OBS	0600	0487	34963	2768			14803								
		OBS	0665	0487	34971	2769			14814								
		STD	0700	0452	3495	2771	0004718	0581	14805								
		OBS	0700	0452	34946	2771			14805								
		STD	0800	0442	3495	2773	0004635	0628	14818								
		OBS	0800	0442	34955	2773			14818								
		STD	0900	0427	3496	2775	0004493	0673	14828								
		OBS	0900	0427	34963	2775			14828								
		STD	1000	0418	3496	2776	0004481	0718	14841								
		OBS	1000	0418	34963	2776			14841								
		STD	1100	0413	3496	2777	0004503	0763	14856								
		OBS	1100	0413	34965	2777			14856								
		STD	1200	0398	3496	2778	0004404	0808	14866								
		OBS	1200	0398	34965	2778			14866								
		STD	1300	0392	3495	2778	0004503	0852	14880								
		OBS	1300	0392	34954	2778			14880								
		STD	1400	0382	3495	2779	0004470	0897	14893								
		OBS	1400	0382	34953	2779			14893								
		STD	1500	0372	3495	2780	0004459	0942	14905								
		OBS	1500	0372	34948	2780			14905								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44210N	047490W		149	47	04	05	068	1968	001	10065	3710	1	28	2	2		X2	0	3		0026

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	28	S10	251	044	039	7	32	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	S C C
		STD	0000	1375	3582	2689	0011686	0000	15044								
068		OBS	0000	1375	35823	2689			15044								
		STD	0010	1373	3583	2690	0011643	0011	15045								
		OBS	0010	1373	35828	2690			15045								
		STD	0020	1375	3583	2690	0011663	0023	15047								
002		OBS	0020	1375	35834	2690			15047								
		OBS	0025	1377	35838	2690			15049								
		STD	0030	1378	3584	2690	0011710	0035	15050								
		OBS	0030	1378	35840	2690			15050								
		STD	0050	1377	3584	2690	0011759	0058	15053								
		OBS	0050	1377	35839	2690			15053								
		STD	0075	1363	3580	2690	0011856	0088	15052								
		OBS	0075	1363	35797	2690			15052								
		STD	0100	1355	3578	2690	0011917	0117	15053								
		OBS	0100	1355	35777	2690			15053								
		STD	0125	1347	3576	2690	0011968	0147	15054								
		OBS	0125	1347	35757	2690			15054								
		STD	0150	1329	3571	2690	0012007	0177	15052								
		OBS	0150	1329	35713	2690			15052								
		STD	0200	1201	3545	2696	0011595	0236	15014								
		OBS	0200	1201	35453	2696			15014								
		STD	0250	1052	3522	2705	0010769	0292	14966								
		OBS	0250	1052	35218	2705			14966								
		OBS	0280	1019	35315	2718			14961								
		STD	0300	0997	3526	2718	0009600	0343	14955								
		OBS	0300	0997	35265	2718			14955								
		OBS	0348	0901	35143	2725			14926								
		OBS	0350	0856	35101	2729			14909								
		OBS	0378	0817	35048	2731			14898								
		STD	0400	0653	3482	2736	0007840	0430	14835								
		OBS	0400	0653	34821	2736			14835								
		OBS	0410	0562	34803	2747			14800								
		OBS	0442	0636	34933	2747			14837								
		OBS	0459	0582	34905	2752			14818								
		STD	0500	0582	3492	2754	0006278	0501	14825								
		OBS	0500	0582	34923	2754			14825								
		STD	0600	0503	3496	2766	0005140	0558	14810								
		OBS	0600	0503	34958	2766			14810								
		STD	0700	0449	3492	2769	0004856	0608	14804								
		OBS	0700	0449	34923	2769			14804								
		STD	0800	0422	3492	2772	0004668	0655	14809								
		OBS	0800	0422	34918	2772			14809								
		STD	0900	0426	3495	2774	0004553	0702	14828								
		OBS	0900	0426	34953	2774			14828								
		STD	1000	0391	3492	2775	0004496	0747	14829								
		OBS	1000	0391	34916	2775			14829								
		STD	1100	0382	3491	2776	0004500	0792	14842								
		OBS	1100	0382	34913	2776			14842								
		STD	1200	0382	3492	2777	0004508	0837	14859								
		OBS	1200	0382	34924	2777			14859								
		STD	1300	0384	3493	2777	0004548	0882	14877								
		OBS	1300	0384	34934	2777			14877								
		STD	1400	0387	3494	2778	0004610	0928	14895								
		OBS	1400	0387	34942	2778			14895								
		STD	1500	0386	3495	2778	0004649	0974	14911								
		OBS	1500	0386	34947	2778			14911								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44170N	047280W		149	47	04	05	086	1968	001	10066	4023	1	28	2	2		X2	0	3		0027

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	S0	25	S10	244	056	044	7	35	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	1396	3586	2688	0011813	0000	15051								
086		OBS	0000	1396	35863	2688			15051								
		STD	0010	1396	3586	2688	0011833	0011	15053								
		OBS	0010	1396	35864	2688			15053								
		STD	0020	1396	3586	2688	0011853	0023	15054								
002		OBS	0020	1396	35865	2688			15054								
		OBS	0025	1396	35866	2688			15055								
		STD	0030	1396	3587	2688	0011865	0035	15056								
		OBS	0030	1396	35868	2688			15056								
		STD	0050	1396	3587	2688	0011923	0059	15059								
		OBS	0050	1396	35868	2688			15059								
		STD	0075	1388	3586	2689	0011895	0089	15061								
		OBS	0075	1388	35860	2689			15061								
		STD	0100	1387	3585	2689	0012013	0119	15064								
		OBS	0100	1387	35851	2689			15064								
		STD	0125	1387	3585	2689	0012085	0149	15069								
		OBS	0125	1387	35851	2689			15069								
		OBS	0140	1367	35803	2689			15064								
		STD	0150	1264	3553	2690	0012053	0179	15028								
		OBS	0150	1264	35535	2690			15028								
		STD	0200	1160	3535	2695	0011616	0238	14998								
		OBS	0200	1160	35348	2695			14998								
		OBS	0221	1065	35229	2704			14966								
		STD	0250	1072	3525	2704	0010860	0294	14974								
		OBS	0250	1072	35253	2704			14974								
		OBS	0261	0988	35143	2710			14944								
		STD	0300	0967	3517	2716	0009780	0346	14943								
		OBS	0300	0967	35173	2716			14943								
		OBS	0330	0965	35208	2719			14948								
		OBS	0361	0885	35165	2729			14923								
		STD	0400	0807	3505	2732	0008352	0436	14898								
		OBS	0400	0807	35050	2732			14898								
		OBS	0430	0667	34879	2739			14847								
		OBS	0440	0682	34903	2739			14854								
		OBS	0445	0632	34863	2742			14835								
		OBS	0470	0615	34858	2744			14832								
		OBS	0475	0572	34845	2749			14816								
		STD	0500	0611	3495	2752	0006481	0511	14837								
		OBS	0500	0611	34947	2752			14837								
		STD	0600	0518	3494	2763	0005447	0570	14816								
		OBS	0600	0518	34942	2763			14816								
		STD	0700	0488	3496	2768	0005063	0623	14820								
		OBS	0700	0488	34959	2768			14820								
		STD	0800	0458	3496	2771	0004790	0672	14824								
		OBS	0800	0458	34961	2771			14824								
		STD	0900	0452	3497	2773	0004733	0720	14839								
		OBS	0900	0452	34973	2773			14839								
		STD	1000	0432	3497	2775	0004586	0766	14847								
		OBS	1000	0432	34972	2775			14847								
		STD	1100	0424	3497	2776	0004567	0812	14860								
		OBS	1100	0424	34975	2776			14860								
		STD	1200	0412	3497	2777	0004550	0858	14872								
		OBS	1200	0412	34969	2777			14872								
		STD	1300	0397	3496	2778	0004544	0903	14882								
		OBS	1300	0397	34956	2778			14882								
		STD	1400	0387	3495	2778	0004566	0949	14895								
		OBS	1400	0387	34948	2778			14895								
		STD	1500	0386	3495	2778	0004605	0994	14911								
		OBS	1500	0386	34953	2778			14911								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44126N	047058W		149	47	04	05	106	1968	001	10067	4023	1	28	2	2		X6	0	3		0028

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S10	227	056	044	7	31	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ ΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	1372	3581	2689	0011741	0000	15043								
106		OBS	0000	1372	35808	2689			15043								
		STD	0010	1372	3581	2689	0011751	0011	15044								
		OBS	0010	1372	35810	2689			15044								
		STD	0020	1372	3581	2689	0011771	0023	15046								
002		OBS	0020	1372	35811	2689			15046								
		STD	0030	1373	3581	2689	0011809	0035	15048								
		OBS	0030	1373	35813	2689			15048								
		STD	0050	1373	3581	2689	0011858	0059	15051								
		OBS	0050	1373	35814	2689			15051								
		STD	0075	1373	3581	2689	0011930	0088	15055								
		OBS	0075	1373	35814	2689			15055								
		STD	0100	1373	3581	2689	0012001	0118	15059								
		OBS	0100	1373	35814	2689			15059								
		STD	0125	1368	3580	2689	0012063	0148	15062								
		OBS	0125	1368	35801	2689			15062								
		STD	0150	1357	3577	2689	0012131	0178	15062								
		OBS	0150	1357	35772	2689			15062								
		STD	0200	1324	3569	2689	0012234	0239	15058								
		OBS	0200	1324	35687	2689			15058								
		OBS	0237	1267	35543	2690			15043								
		OBS	0246	1166	35355	2695			15008								
		STD	0250	1162	3535	2696	0011722	0299	15007								
		OBS	0250	1162	35355	2696			15007								
		OBS	0270	1158	35393	2699			15009								
		STD	0300	1099	3534	2706	0010811	0356	14993								
		OBS	0300	1099	35340	2706			14993								
		OBS	0370	0937	35163	2720			14944								
		STD	0400	0730	3488	2730	0008447	0452	14866								
		OBS	0400	0730	34883	2730			14866								
		OBS	0409	0714	34894	2734			14862								
		OBS	0425	0767	35032	2737			14887								
		STD	0500	0647	3496	2748	0006853	0528	14851								
		OBS	0500	0647	34963	2748			14851								
		STD	0600	0534	3495	2761	0005603	0591	14822								
		OBS	0600	0534	34948	2761			14822								
		OBS	0650	0536	34996	2765			14832								
		STD	0700	0504	3497	2766	0005214	0645	14827								
		OBS	0700	0504	34966	2766			14827								
		STD	0800	0475	3497	2770	0004956	0696	14831								
		OBS	0800	0475	34967	2770			14831								
		STD	0900	0452	3497	2773	0004750	0744	14839								
		OBS	0900	0452	34970	2773			14839								
		STD	1000	0429	3496	2775	0004632	0791	14846								
		OBS	1000	0429	34961	2775			14846								
		STD	1100	0418	3496	2776	0004569	0837	14858								
		OBS	1100	0418	34964	2776			14858								
		STD	1200	0416	3498	2777	0004535	0883	14874								
		OBS	1200	0416	34978	2777			14874								
		STD	1300	0409	3497	2778	0004590	0928	14888								
		OBS	1300	0409	34971	2778			14888								
		STD	1400	0398	3496	2778	0004611	0974	14900								
		OBS	1400	0398	34961	2778			14900								
		STD	1500	0392	3496	2779	0004627	1020	14914								
		OBS	1500	0392	34961	2779			14914								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4406 N	046275W		149	46	04	05	135	1968	001	10068	4023	1	24	3	5		X2	0	3		0029

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	24	S32	186	101	089	3	34	

MESSENGR TIME or HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ△D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	1297	3564	2691	0011515	0000	15016								
135		OBS	0000	1297	35638	2691			15016								
		STD	0010	1297	3564	2691	0011542	0011	15017								
		OBS	0010	1297	35638	2691			15017								
		STD	0020	1297	3564	2691	0011570	0023	15019								
002		OBS	0020	1297	35638	2691			15019								
		STD	0030	1297	3564	2691	0011597	0034	15021								
		OBS	0030	1297	35638	2691			15021								
		STD	0050	1297	3564	2691	0011652	0057	15024								
		OBS	0050	1297	35638	2691			15024								
		STD	0075	1291	3563	2691	0011702	0087	15026								
		OBS	0075	1291	35625	2691			15026								
		STD	0100	1291	3563	2691	0011770	0116	15030								
		OBS	0100	1291	35625	2691			15030								
		OBS	0111	1230	35482	2692			15009								
		STD	0125	1227	3548	2693	0011707	0145	15010								
		OBS	0125	1227	35478	2693			15010								
		STD	0150	1228	3548	2693	0011754	0175	15015								
		OBS	0150	1228	35482	2693			15015								
		STD	0200	1247	3555	2694	0011756	0233	15030								
		OBS	0200	1247	35549	2694			15030								
		STD	0250	1240	3554	2695	0011821	0292	15036								
		OBS	0250	1240	35540	2695			15036								
		OBS	0266	1207	35473	2696			15027								
		OBS	0271	1052	35198	2703			14970								
		STD	0300	1012	3518	2709	0010455	0348	14960								
		OBS	0300	1012	35183	2709			14960								
		OBS	0340	0965	35152	2715			14949								
		OBS	0360	0837	35008	2724			14903								
		OBS	0378	0838	35023	2725			14906								
		STD	0400	0812	3497	2725	0008993	0445	14899								
		OBS	0400	0812	34973	2725			14899								
		OBS	0420	0740	34952	2734			14874								
		OBS	0430	0768	35017	2735			14888								
		OBS	0454	0697	34958	2741			14863								
		OBS	0470	0702	34976	2742			14868								
		STD	0500	0622	3492	2748	0006816	0524	14841								
		OBS	0500	0622	34922	2748			14841								
		STD	0600	0529	3491	2759	0005802	0587	14820								
		OBS	0600	0529	34913	2759			14820								
		STD	0700	0479	3490	2764	0005360	0643	14816								
		OBS	0700	0479	34904	2764			14816								
		STD	0800	0445	3492	2770	0004926	0695	14818								
		OBS	0800	0445	34921	2770			14818								
		STD	0900	0445	3495	2772	0004815	0743	14835								
		OBS	0900	0445	34950	2772			14835								
		STD	1000	0438	3496	2774	0004724	0791	14849								
		OBS	1000	0438	34964	2774			14849								
		STD	1100	0431	3497	2775	0004700	0838	14863								
		OBS	1100	0431	34968	2775			14863								
		STD	1200	0426	3497	2776	0004705	0885	14878								
		OBS	1200	0426	34973	2776			14878								
		STD	1300	0416	3497	2777	0004709	0932	14891								
		OBS	1300	0416	34968	2777			14891								
		STD	1400	0396	3495	2777	0004675	0979	14899								
		OBS	1400	0396	34949	2777			14899								
		STD	1500	0384	3494	2778	0004642	1026	14910								
		OBS	1500	0384	34944	2778			14910								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPL INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4343 N	04516 W		149	35	04	06	205	1968	001	10069	3567	1	25	5	2		X2	0	3		0030

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	28	S18	125	139	133	6	36	

MESSENGR TIME OF T HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	ΣΔD OYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCD
		STD	0000	1157	3524	2688	0011849	0000	14963								
205		OBS	0000	1157	35241	2688			14963								
		STD	0010	1157	3524	2688	0011874	0011	14965								
		OBS	0010	1157	35241	2688			14965								
		STD	0020	1157	3524	2688	0011899	0023	14966								
002		OBS	0020	1157	35241	2688			14966								
		STD	0030	1157	3524	2688	0011906	0035	14968								
		OBS	0030	1157	35243	2688			14968								
		OBS	0040	1157	35259	2689			14970								
		STD	0050	1190	3538	2692	0011552	0059	14984								
		OBS	0050	1190	35379	2692			14984								
		STD	0075	1206	3543	2693	0011528	0088	14994								
		OBS	0075	1206	35431	2693			14994								
		STD	0100	1208	3544	2693	0011584	0116	14999								
		OBS	0100	1208	35437	2693			14999								
		STD	0125	1208	3544	2693	0011639	0145	15003								
		OBS	0125	1208	35439	2693			15003								
		STD	0150	1205	3543	2693	0011694	0175	15006								
		OBS	0150	1205	35432	2693			15006								
		STD	0200	1136	3535	2700	0011183	0232	14990								
		OBS	0200	1136	35347	2700			14990								
		OBS	0223	1107	35318	2703			14983								
		OBS	0238	1116	35373	2706			14989								
		STD	0250	1096	3534	2707	0010620	0286	14984								
		OBS	0250	1096	35343	2707			14984								
		STD	0300	0982	3519	2715	0009915	0338	14949								
		OBS	0300	0982	35188	2715			14949								
		OBS	0380	0777	34930	2727			14882								
		STD	0400	0786	3500	2731	0008414	0429	14890								
		OBS	0400	0786	34998	2731			14890								
		OBS	0420	0737	34913	2732			14873								
		OBS	0431	0624	34773	2736			14828								
		OBS	0440	0672	34923	2742			14851								
		OBS	0477	0471	34628	2744			14772								
		STD	0500	0526	3477	2749	0006678	0505	14800								
		OBS	0500	0526	34773	2749			14800								
		OBS	0520	0575	34893	2752			14825								
		OBS	0550	0534	34853	2754			14813								
		STD	0600	0529	3491	2759	0005847	0567	14820								
		OBS	0600	0529	34907	2759			14820								
		OBS	0661	0528	34972	2764			14830								
		STD	0700	0470	3491	2766	0005185	0623	14812								
		OBS	0700	0470	34913	2766			14812								
		STD	0800	0459	3496	2772	0004766	0672	14825								
		OBS	0800	0459	34965	2772			14825								
		STD	0900	0436	3494	2772	0004805	0720	14832								
		OBS	0900	0436	34936	2772			14832								
		STD	1000	0412	3493	2774	0004626	0767	14838								
		OBS	1000	0412	34933	2774			14838								
		STD	1100	0415	3494	2774	0004702	0814	14856								
		OBS	1100	0415	34941	2774			14856								
		STD	1200	0413	3495	2776	0004685	0861	14872								
		OBS	1200	0413	34953	2776			14872								
		OBS	1229	0374	34893	2775			14860								
		STD	1300	0372	3490	2776	0004634	0907	14871								
		OBS	1300	0372	34901	2776			14871								
		STD	1400	0387	3493	2777	0004680	0954	14895								
		OBS	1400	0387	34933	2777			14895								
		STD	1500	0382	3494	2778	0004652	1001	14910								
		OBS	1500	0382	34939	2778			14910								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4338 N	04453 W		149	34	04	06	230	1968	001	10070	4645	1	27	3	2		X6	0	3		0031

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S20	142	100	083	6	32	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SOUND
		STD	0000	1142	3520	2687	0011885	0000	14957								
	234	OBS	0000	1142	35199	2687			14957								
		STD	0010	1142	3520	2687	0011901	0011	14959								
		OBS	0010	1142	35201	2687			14959								
		STD	0020	1142	3520	2687	0011926	0023	14960								
	002	OBS	0020	1142	35201	2687			14960								
		STD	0030	1137	3519	2687	0011932	0035	14960								
		OBS	0030	1137	35191	2687			14960								
		STD	0050	1132	3518	2688	0011971	0059	14962								
		OBS	0050	1132	35180	2688			14962								
		STD	0075	1127	3516	2687	0012058	0089	14964								
		OBS	0075	1127	35165	2687			14964								
		STD	0100	1122	3515	2687	0012118	0119	14966								
		OBS	0100	1122	35153	2687			14966								
		STD	0125	1103	3510	2687	0012210	0150	14963								
		OBS	0125	1103	35103	2687			14963								
		STD	0150	1067	3503	2688	0012195	0180	14953								
		OBS	0150	1067	35028	2688			14953								
		OBS	0158	1048	35013	2690			14947								
		OBS	0172	1176	35363	2694			14999								
		OBS	0175	1167	35353	2694			14996								
		STD	0200	1067	3518	2700	0011174	0239	14963								
		OBS	0200	1067	35183	2700			14963								
		OBS	0245	0997	35143	2709			14945								
		STD	0250	0878	3492	2711	0010096	0492	14899								
		OBS	0250	0878	34923	2711			14899								
		OBS	0270	0827	34852	2714			14882								
		OBS	0290	0936	35148	2719			14930								
		STD	0300	0917	3511	2720	0009435	0341	14924								
		OBS	0300	0917	35109	2720			14924								
		STD	0400	0657	3477	2732	0008247	0429	14836								
		OBS	0400	0657	34773	2732			14836								
		OBS	0410	0606	34903	2749			14819								
		OBS	0425	0662	35023	2751			14846								
		STD	0500	0572	3489	2752	0006374	0502	14820								
		OBS	0500	0572	34893	2752			14820								
		STD	0600	0497	3489	2762	0005551	0562	14806								
		OBS	0600	0497	34893	2762			14806								
		STD	0700	0480	3494	2767	0005086	0615	14817								
		OBS	0700	0480	34943	2767			14817								
		STD	0800	0466	3495	2770	0004939	0665	14828								
		OBS	0800	0466	34954	2770			14828								
		STD	0900	0436	3494	2772	0004752	0714	14832								
		OBS	0900	0436	34943	2772			14832								
		STD	1000	0416	3492	2773	0004751	0761	14840								
		OBS	1000	0416	34923	2773			14840								
		STD	1100	0390	3489	2773	0004743	0809	14845								
		OBS	1100	0390	34893	2773			14845								
		STD	1200	0387	3491	2775	0004646	0856	14861								
		OBS	1200	0387	34913	2775			14861								
		STD	1300	0387	3492	2776	0004663	0902	14878								
		OBS	1300	0387	34923	2776			14878								
		STD	1400	0386	3493	2777	0004668	0949	14894								
		OBS	1400	0386	34933	2777			14894								
		STD	1500	0380	3493	2777	0004707	0996	14909								
		OBS	1500	0380	34928	2777			14909								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4332 N	04700 W		149	37	04	07	081	1968	001	10071	4151	1	28	4	2		X1	0	3		0032

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S16	166	039	022	7	32	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCD
		STD	0000	1576	3620	2674	0013106	0000	15112								
081		OBS	0000	1576	36201	2674			15112								
		STD	0010	1582	3621	2673	0013229	0013	15116								
		OBS	0010	1582	36206	2673			15116								
		STD	0020	1582	3620	2673	0013288	0026	15118								
003		OBS	0020	1582	36203	2673			15118								
		STD	0030	1582	3621	2674	0013275	0039	15119								
		OBS	0030	1582	36209	2674			15119								
		STD	0050	1582	3621	2674	0013321	0066	15123								
		OBS	0050	1582	36212	2674			15123								
		STD	0075	1572	3620	2675	0013283	0099	15123								
		OBS	0075	1572	36198	2675			15123								
		STD	0100	1448	3590	2680	0012899	0132	15085								
		OBS	0100	1448	35900	2680			15085								
		STD	0125	1397	3579	2682	0012719	0164	15071								
		OBS	0125	1397	35792	2682			15071								
		STD	0150	1347	3567	2684	0012652	0196	15057								
		OBS	0150	1347	35673	2684			15057								
		STD	0200	1282	3557	2689	0012255	0258	15043								
		OBS	0200	1282	35573	2689			15043								
		OBS	0235	1127	35253	2694			14991								
		STD	0250	1190	3547	2699	0011375	0317	15018								
		OBS	0250	1190	35473	2699			15018								
		STD	0300	1084	3533	2708	0010605	0372	14988								
		OBS	0300	1084	35332	2708			14988								
		STD	0400	0787	3495	2728	0008774	0469	14889								
		OBS	0400	0787	34952	2728			14889								
		OBS	0460	0666	34903	2741			14851								
		OBS	0487	0727	35073	2746			14882								
		STD	0500	0627	3492	2748	0006875	0547	14843								
		OBS	0500	0627	34923	2748			14843								
		OBS	0520	0566	34883	2752			14821								
		OBS	0550	0642	35043	2755			14859								
		STD	0600	0498	3484	2757	0005937	0611	14806								
		OBS	0600	0498	34843	2757			14806								
		OBS	0612	0536	34953	2762			14825								
		OBS	0635	0466P	34933	2768P											
		OBS	0650	0517	34954	2764			14824								
		STD	0700	0518	3499	2767	0005193	0667	14833								
		OBS	0700	0518	34993	2767			14833								
		STD	0800	0479	3497	2770	0004955	0717	14833								
		OBS	0800	0479	34974	2770			14833								
		STD	0900	0462	3497	2772	0004852	0766	14843								
		OBS	0900	0462	34973	2772			14843								
		STD	1000	0447	3498	2774	0004701	0814	14853								
		OBS	1000	0447	34982	2774			14853								
		STD	1100	0422	3495	2774	0004721	0861	14859								
		OBS	1100	0422	34950	2774			14859								
		STD	1200	0427	3497	2776	0004708	0908	14878								
		OBS	1200	0427	34974	2776			14878								
		STD	1300	0407	3495	2776	0004681	0955	14887								
		OBS	1300	0407	34955	2776			14887								
		STD	1400	0393	3495	2778	0004630	1002	14897								
		OBS	1400	0393	34950	2778			14897								
		STD	1500	0389	3495	2778	0004695	1049	14913								
		OBS	1500	0389	34946	2778			14913								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	4330 N	04800 W		149	38	04	07	128	1968	001	10072	3720	1	28	3	2		X2	0	3		0033

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	28	S22	200	044	017	6	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0451	3329	2640	0016382	0000	14667								
128		OBS	0000	0451	33292	2640			14667								
		STD	0010	0450	3329	2640	0016373	0016	14668								
		OBS	0010	0450	33292	2640			14668								
		STD	0020	0450	3329	2640	0016382	0032	14670								
002		OBS	0020	0450	33292	2640			14670								
		STD	0030	0443	3329	2641	0016326	0049	14669								
		OBS	0030	0443	33291	2641			14669								
		OBS	0045	0337	33593	2675			14630								
		STD	0050	0336	3367	2682	0012452	0077	14632								
		OBS	0050	0336	33673	2682			14632								
		OBS	0070	0325	33996	2708			14635								
		STD	0075	0329	3400	2709	0009902	0105	14637								
		OBS	0075	0329	34005	2709			14637								
		OBS	0090	0306	34107	2719			14631								
		STD	0100	0310	3425	2730	0007876	0128	14637								
		OBS	0100	0310	34253	2730			14637								
		STD	0125	0419	3453	2742	0006845	0146	14691								
		OBS	0125	0419	34533	2742			14691								
		OBS	0142	0397	34514	2742			14684								
		STD	0150	0507	3467	2743	0006820	0163	14733								
		OBS	0150	0507	34668	2743			14733								
		OBS	0155	0537	34713	2743			14747								
		OBS	0164	0392	34616	2751			14687								
		STD	0200	0485	3482	2757	0005465	0194	14735								
		OBS	0200	0485	34823	2757			14735								
		OBS	0245	0507	34953	2765			14753								
		STD	0250	0508	3488	2759	0005347	0221	14753								
		OBS	0250	0508	34883	2759			14753								
		STD	0300	0485	3489	2763	0005059	0247	14752								
		OBS	0300	0485	34893	2763			14752								
		OBS	0326	0478	34929	2767			14754								
		OBS	0336	0498	34963	2767			14764								
		STD	0400	0474	3493	2768	0004733	0296	14764								
		OBS	0400	0474	34935	2768			14764								
		STD	0500	0474	3498	2771	0004496	0342	14782								
		OBS	0500	0474	34982	2771			14782								
		OBS	0540	0474	34979	2771			14788								
		OBS	0555	0458	34979	2773			14784								
		STD	0600	0449	3497	2773	0004385	0386	14788								
		OBS	0600	0449	34972	2773			14788								
		STD	0700	0427	3496	2775	0004311	0430	14795								
		OBS	0700	0427	34961	2775			14795								
		STD	0800	0418	3496	2776	0004305	0473	14808								
		OBS	0800	0418	34960	2776			14808								
		STD	0900	0407	3495	2776	0004361	0516	14820								
		OBS	0900	0407	34948	2776			14820								
		OBS	0950	0397	34944	2777			14824								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	4314 N	050201W		150	30	04	08	005	1968	001	10073	0058	1	24	2	2		X1	0	3		0034

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	23	S14	193	044	020	7	07	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0247	3300	2636	0016726	0000	14576								
005		OBS	0000	0247	33005	2636			14576								
		STD	0010	0246	3300	2636	0016730	0016	14577								
		OBS	0010	0246	33005	2636			14577								
		STD	0020	0207	3299	2638	0016586	0033	14561								
001		OBS	0020	0207	32986	2638			14561								
		OBS	0025	0207	33028	2641			14563								
		STD	0030	0207	3304	2642	0016200	0049	14564								
		OBS	0030	0207	33037	2642			14564								
		OBS	0035	0207	33040	2642			14565								
		STD	0050	0192	3305	2644	0015976	0082	14561								
		OBS	0050	0192	33053	2644			14561								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4300 N	05018 W		150	30	04	08	020	1968	001	10074	0073	1	24	2	2		X2	0	3		0035

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	24	S12	196	044	022	7	09	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0162	3294	2637	0016609	0000	14538								
020		OBS	0000	0162	32941	2637			14538								
		STD	0010	0162	3297	2640	0016384	0016	14540								
		OBS	0010	0162	32971	2640			14540								
001		OBS	0017	0165	32981	2640			14542								
		STD	0020	0167	3298	2640	0016349	0032	14544								
		OBS	0020	0167	32981	2640			14544								
		OBS	0025	0172	32989	2641			14547								
		STD	0030	0179	3301	2642	0016225	0049	14551								
		OBS	0030	0179	33008	2642			14551								
		OBS	0040	0147	32985	2642			14538								
		STD	0050	0147	3300	2643	0016079	0081	14540								
		OBS	0050	0147	32999	2643			14540								
		OBS	0060	0134	32991	2643			14536								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	42495N	05017 W		150	20	04	08	028	1968	001	10075	0274	1	26	2	3		X2	0	3		0036

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	24	S06	200	039	022	7	13	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0027	3277	2632	0017116	0000	14474								
028		OBS	0000	0027	32775	2632			14474								
		STD	0010	0022	3277	2632	0017086	0017	14474								
		OBS	0010	0022	32775	2632			14474								
		STD	0020	0013	3281	2635	0016802	0034	14472								
001		OBS	0020	0013	32807	2635			14472								
		OBS	0025	0017	32816	2636			14475								
		STD	0030	0002	3281	2636	0016716	0050	14468								
		OBS	0030	0002	32811	2636			14468								
		STD	0050	-0048	3290	2646	0015798	0083	14450								
		OBS	0050	-0048	32902	2646			14450								
		OBS	0055	-0013	32958	2649			14468								
		STD	0075	-0008	3325	2672	0013274	0119	14477								
		OBS	0075	-0008	33254	2672			14477								
		STD	0100	0016	3335	2679	0012678	0152	14494								
		OBS	0100	0016	33346	2679			14494								
		STD	0125	0036	3349	2689	0011660	0182	14509								
		OBS	0125	0036	33493	2689			14509								
		STD	0150	0052	3361	2698	0010816	0210	14522								
		OBS	0150	0052	33615	2698			14522								
		STD	0200	0168	3411	2731	0007815	0257	14589								
		OBS	0200	0168	34113	2731			14589								
		STD	0250	0297	3448	2749	0006179	0292	14659								
		OBS	0250	0297	34476	2749			14659								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4239 N	05016 W		150	20	04	08	041	1968	001	10076	1810	1	26	2	3		X1	0	3		0037

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	24	S06	196	039	017	7	28	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔO DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCO
		STD	0000	0027	3280	2634	0016898	0000	14475								
041		OBS	0000	0027	32803	2634			14475								
		STD	0010	0012	3282	2637	0016678	0016	14470								
		OBS	0010	0012	32823	2637			14470								
		STD	0020	0012	3291	2644	0015987	0033	14473								
003		OBS	0020	0012	32913	2644			14473								
		OBS	0025	0027	32931	2645			14481								
		STD	0030	0057	3298	2647	0015717	0049	14496								
		OBS	0030	0057	32977	2647			14496								
		STD	0050	0196	3322	2657	0014756	0079	14565								
		OBS	0050	0196	33218	2657			14565								
		OBS	0061	0236	33313	2662			14585								
		STD	0075	0127	3326	2665	0013980	0115	14539								
		OBS	0075	0127	33259	2665			14539								
		OBS	0085	0230	33773	2699			14593								
		STD	0100	0157	3371	2700	0010741	0146	14562								
		OBS	0100	0157	33713	2700			14562								
		OBS	0105	0116	33683	2700			14545								
		STD	0125	0132	3394	2720	0008826	0170	14559								
		OBS	0125	0132	33943	2720			14559								
		STD	0150	0162	3413	2732	0007635	0191	14579								
		OBS	0150	0162	34129	2732			14579								
		STD	0200	0277	3439	2744	0006630	0227	14641								
		OBS	0200	0277	34388	2744			14641								
		STD	0250	0357	3461	2754	0005722	0257	14686								
		OBS	0250	0357	34614	2754			14686								
		STD	0300	0402	3475	2761	0005187	0285	14715								
		OBS	0300	0402	34753	2761			14715								
		STD	0400	0450	3488	2766	0004880	0335	14754								
		OBS	0400	0450	34878	2766			14754								
		STD	0500	0446	3492	2769	0004641	0383	14769								
		OBS	0500	0446	34918	2769			14769								
		STD	0600	0422	3490	2770	0004613	0429	14775								
		OBS	0600	0422	34899	2770			14775								
		STD	0700	0407	3490	2772	0004544	0475	14786								
		OBS	0700	0407	34898	2772			14786								
		STD	0800	0402	3490	2773	0004541	0520	14800								
		OBS	0800	0402	34903	2773			14800								
		STD	0900	0392	3490	2774	0004515	0565	14813								
		OBS	0900	0392	34903	2774			14813								
		STD	1000	0387	3491	2775	0004513	0611	14827								
		OBS	1000	0387	34908	2775			14827								
		OBS	1045	0383	34909	2775			14833								
		OBS	1088	0402	34938	2776			14849								
		OBS	1090	0382	34914	2776			14840								
		STD	1100	0382	3491	2776	0004491	0656	14842								
		OBS	1100	0382	34914	2776			14842								
		STD	1200	0383	3492	2776	0004538	0701	14859								
		OBS	1200	0383	34922	2776			14859								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4228 N	050145W		150	20	04	08	059	1968	001	10077	2834	1	26	2	2		X2	0	3		0038

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S07	196	039	017	7	41	

MESSENGR TIME OF T HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	CODE
		STD	0000	0077	3280	2632	0017152	0000	14498								
059		OBS	0000	0077	32803	2632			14498								
		STD	0010	0310	3314	2642	0016179	0016	14607								
		OBS	0010	0310	33145	2642			14607								
003		OBS	0015	0346	33203	2643			14624								
		STD	0020	0320	3318	2644	0015986	0032	14613								
		OBS	0020	0320	33183	2644			14613								
		OBS	0025	0457	33559	2660			14677								
		STD	0030	0747	3410	2667	0013888	0047	14802								
		OBS	0030	0747	3311P	2589P											
		OBS	0040	0906	34715	2691			14872								
		STD	0050	0878	3471	2694	0011313	0072	14863								
		OBS	0050	0878	34706	2694			14863								
		OBS	0055	0877	34708	2695			14864								
		OBS	0070	1040	35075	2696			14931								
		STD	0075	0967	3492	2697	0011141	0101	14903								
		OBS	0075	0967	34923	2697			14903								
		STD	0100	0816	3466	2700	0010828	0128	14847								
		OBS	0100	0816	34660	2700			14847								
		OBS	0121	0820	34675	2701			14852								
		STD	0125	0802	3466	2702	0010680	0155	14846								
		OBS	0125	0802	34658	2702			14846								
		OBS	0130	0804	34666	2703			14848								
		OBS	0143	0954	35028	2707			14911								
		STD	0150	0952	3503	2708	0010258	0181	14911								
		OBS	0150	0952	35032	2708			14911								
		OBS	0165	0928	35025	2711			14905								
		OBS	0180	0797	34838	2717			14856								
		OBS	0181	0642	34603	2721			14792								
		STD	0200	0634	3460	2721	0008937	0229	14792								
		OBS	0200	0634	34599	2721			14792								
		OBS	0207	0623	34598	2723			14789								
		OBS	0225	0797	34983	2729			14865								
		OBS	0240	0668	34773	2730			14814								
		STD	0250	0753	3501	2737	0007618	0270	14852								
		OBS	0250	0753	35006	2737			14852								
		OBS	0260	0776	35058	2738			14863								
		STD	0300	0647	3492	2745	0006851	0307	14818								
		OBS	0300	0647	34923	2745			14818								
		OBS	0365	0537	34883	2756			14784								
		STD	0400	0556	3495	2759	0005581	0369	14798								
		OBS	0400	0556	34954	2759			14798								
		OBS	0450	0495	34933	2765			14781								
		STD	0500	0505	3498	2767	0004899	0421	14794								
		OBS	0500	0505	34978	2767			14794								
		STD	0600	0446	3493	2770	0004675	0469	14786								
		OBS	0600	0446	34928	2770			14786								
		STD	0700	0427	3494	2773	0004462	0515	14795								
		OBS	0700	0427	34940	2773			14795								
		STD	0800	0436	3497	2774	0004473	0559	14815								
		OBS	0800	0436	34967	2774			14815								
		STD	0900	0418	3495	2775	0004455	0604	14824								
		OBS	0900	0418	34953	2775			14824								
		STD	1000	0417	3497	2777	0004390	0648	14841								
		OBS	1000	0417	34973	2777			14841								
		STD	1100	0386	3494	2777	0004361	0692	14844								
		OBS	1100	0386	34938	2777			14844								
		STD	1200	0387	3495	2778	0004372	0736	14861								
		OBS	1200	0387	34951	2778			14861								
		STD	1300	0392	3496	2779	0004441	0780	14880								
		OBS	1300	0392	34962	2779			14880								
		STD	1400	0389	3496	2779	0004502	0824	14896								
		OBS	1400	0389	34960	2779			14896								
		STD	1500	0386	3496	2779	0004535	0870	14912								
		OBS	1500	0386	34963	2779			14912								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4208 N	05012 W		150	20	04	08	083	1968	001	10078	3383	1	26	2	2		X2	0	3		0039

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	S0	26	S08	200	044	028	7	48	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0183	3279	2624	0017903	0000	14545								
083		OBS	0000	0183	32789	2624			14545								
		STD	0010	0079	3276	2628	0017495	0017	14499								
		OBS	0010	0079	32760	2628			14499								
		STD	0020	0096	3292	2640	0016381	0034	14511								
003		OBS	0020	0096	32918	2640			14511								
		OBS	0025	0129	33003	2645			14528								
		OBS	0028	0055	32975	2647			14495								
		STD	0030	0134	3314	2655	0014918	0050	14533								
		OBS	0030	0134	33141	2655			14533								
		OBS	0035	-0050	33055	2658			14449								
		OBS	0039	0086	33409	2680			14516								
		OBS	0040	0038	33377	2680			14494								
		OBS	0046	0051	33399	2681			14502								
		STD	0050	0170	3369	2697	0010966	0076	14560								
		OBS	0050	0170	33693	2697			14560								
		OBS	0065	0513	34094	2696			14714								
		OBS	0070	0395	33960	2699			14664								
		STD	0075	0462	3408	2701	0010650	0103	14694								
		OBS	0075	0462	34079	2701			14694								
		OBS	0090	0501	34157	2703			14714								
		STD	0100	0497	3416	2703	0010458	0129	14714								
		OBS	0100	0497	34159	2703			14714								
		OBS	0114	0455	34118	2705			14698								
		OBS	0118	0572	34283	2704			14749								
		STD	0125	0329	3404	2712	0009630	0154	14646								
		OBS	0125	0329	34045	2712			14646								
		OBS	0130	0390	34134	2713			14674								
		OBS	0140	0347	34113	2716			14657								
		OBS	0143	0440	34355	2725			14700								
		STD	0150	0442	3437	2726	0008365	0177	14702								
		OBS	0150	0442	34366	2726			14702								
		OBS	0156	0407	34340	2728			14688								
		OBS	0180	0568	34645	2733			14763								
		OBS	0195	0502	34579	2736			14737								
		STD	0200	0531	3465	2739	0007269	0216	14751								
		OBS	0200	0531	34653	2739			14751								
		OBS	0210	0445	34573	2742			14716								
		OBS	0217	0485	34635	2742			14735								
		OBS	0230	0475	34686	2748			14733								
		OBS	0240	0525	34785	2750			14757								
		OBS	0242	0488	34753	2751			14742								
		STD	0250	0493	3476	2752	0006067	0249	14745								
		OBS	0250	0493	34763	2752			14745								
		OBS	0274	0497	34802	2754			14751								
		OBS	0278	0572	34923	2755			14784								
		STD	0300	0591	3498	2757	0005681	0279	14796								
		OBS	0300	0591	34982	2757			14796								
		OBS	0347	0545	34943	2760			14785								
		OBS	0360	0462	34833	2761			14751								
		STD	0400	0487	3490	2763	0005130	0333	14769								
		OBS	0400	0487	34902	2763			14769								
		STD	0500	0472	3495	2769	0004690	0382	14780								
		OBS	0500	0472	34953	2769			14780								
		STD	0600	0483	3499	2771	0004639	0428	14802								
		OBS	0600	0483	34993	2771			14802								
		STD	0700	0482	3503	2774	0004465	0474	14819								
		OBS	0700	0482	35030	2774			14819								
		STD	0800	0462	3500	2774	0004531	0519	14827								
		OBS	0800	0462	35002	2774			14827								
		OBS	0830	0452	34991	2774			14827								
		OBS	0840	0425	34963	2775			14817								
		STD	0900	0437	3499	2776	0004408	0564	14833								
		OBS	0900	0437	34991	2776			14833								
		STD	1000	0419	3496	2775	0004546	0608	14841								
		OBS	1000	0419	34956	2775			14841								
		STD	1100	0415	3497	2777	0004464	0653	14857								
		OBS	1100	0415	34973	2777			14857								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	41465N	05009 W		150	10	04	08	115	1968	001	10079	3750	1	26	2	2		X1	6	5		0040

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		26	S10	220	039	028	7	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	0365	3305	2629	0017387	0000	14627								
115		OBS	0000	0365	33048	2629			14627								
115		OBS	0009	0366	33050	2629			14629								
		STD	0010	0363	3305	2630	0017330	0017	14628								
		STD	0020	0328	3311	2638	0016575	0034	14616								
115		OBS	0024	0310	33146	2642			14609								
		STD	0030	0256	3321	2652	0015245	0050	14588								
115		OBS	0049	0148	33437	2678			14546								
		STD	0050	0148	3345	2679	0012698	0078	14547								
115		OBS	0073	0149	33759	2704			14555								
		STD	0075	0179	3382	2707	0010071	0106	14569								
115		OBS	0098	0425	34353	2727			14686								
		STD	0100	0420	3435	2727	0008174	0129	14685								
		STD	0125	0371	3438	2734	0007542	0149	14668								
115		OBS	0147	0356	34420	2739			14666								
		STD	0150	0362	3443	2740	0007037	0167	14669								
		STD	0200	0440	3464	2748	0006361	0200	14713								
115		OBS	T0206	0447	34658	2749			14718								
		STD	0250	0483	3480	2756	0005674	0230	14742								
115		OBS	0295	0507	34905	2761			14760								
		STD	0300	0508	3491	2762	0005191	0258	14761								
115		OBS	0393	0511	34990	2768			14779								
		STD	0400	0509	3499	2768	0004730	0307	14780								
		STD	0500	0485	3501	2772	0004437	0353	14787								
115		OBS	0589	0466	35013	2775			14793								
		STD	0600	0464	3501	2775	0004263	0397	14794								
		STD	0700	0446	3500	2776	0004236	0439	14803								
		STD	0800	0429	3499	2777	0004211	0481	14813								
115		OBS	T0808	0428	34990	2777			14814								
		STD	0900	0413	3498	2778	0004222	0523	14822								
		STD	1000	0399	3496	2778	0004241	0566	14833								
115		OBS	T1018	0397	34963	2778			14835								
		STD	1100	0388	3496	2779	0004261	0608	14845								
		STD	1200	0380	3495	2779	0004291	0651	14859								
115		OBS	T1221	0379	34950	2779			14862								

REFERENCE CTRY CODE	REFERENCE ID. ND.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NDDC STATION NUMBER
318039		EV	4202 N	04800 W		149	28	04	08	195	1968	001	10080	3749	1	31	2	3		X1	0	3		0041

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	27	S09	224	094	078	7	40	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	S C C
		STD	0000	0362	3311	2634	0016907	0000	14627								
195		OBS	0000	0362	33108	2634			14627								
		STD	0010	0272	3307	2640	0016405	0016	14589								
		OBS	0010	0272	33074	2640			14589								
		STD	0020	0277	3310	2641	0016264	0033	14594								
003		OBS	0020	0277	33099	2641			14594								
		OBS	0025	0289	33117	2642			14600								
		STD	0030	0297	3316	2644	0015999	0049	14605								
		OBS	0030	0297	33156	2644			14605								
		OBS	0039	0357	33249	2646			14633								
		STD	0050	0337	3338	2658	0014703	0079	14628								
		OBS	0050	0337	33375	2658			14628								
		OBS	0067	0287	33623	2682			14613								
		STD	0075	0326	3377	2691	0011617	0112	14633								
		OBS	0075	0326	33773	2691			14633								
		OBS	0091	0326	33938	2704			14638								
		STD	0100	0454	3414	2707	0010149	0139	14696								
		OBS	0100	0454	34138	2707			14696								
		OBS	0101	0384	34160	2716			14667								
		STD	0125	0639	3461	2721	0008849	0163	14782								
		OBS	0125	0639	34606	2721			14782								
		OBS	0135	0527	34491	2726			14737								
		OBS	0140	0607	34623	2727			14772								
		STD	0150	0532	3453	2729	0008100	0184	14742								
		OBS	0150	0532	34535	2729			14742								
		OBS	0167	0348	34371	2736			14666								
		OBS	0184	0357	34401	2738			14673								
		STD	0200	0466	3459	2741	0006959	0222	14724								
		OBS	0200	0466	34595	2741			14724								
		OBS	0230	0519	34722	2745			14752								
		OBS	0248	0442	34658	2749			14722								
		STD	0250	0478	3472	2750	0006192	0255	14738								
		OBS	0250	0478	34723	2750			14738								
		OBS	0273	0413	34679	2754			14715								
		OBS	0290	0412	34713	2757			14717								
		STD	0300	0439	3479	2760	0005322	0284	14731								
		OBS	0300	0439	34788	2760			14731								
		OBS	0321	0481	34878	2762			14754								
		OBS	0350	0496	34906	2763			14765								
		OBS	0373	0371P	34878	2774P											
		STD	0400	0492	3493	2765	0004956	0335	14772								
		OBS	0400	0492	34934	2765			14772								
		STD	0500	0459	3493	2769	0004684	0383	14775								
		OBS	0500	0459	34933	2769			14775								
		STD	0600	0451	3497	2773	0004450	0429	14788								
		OBS	0600	0451	34966	2773			14788								
		STD	0700	0456	3497	2773	0004555	0474	14807								
		OBS	0700	0456	34975	2773			14807								
		STD	0800	0415	3493	2774	0004477	0519	14806								
		OBS	0800	0415	34933	2774			14806								
		STD	0900	0413	3495	2776	0004400	0564	14822								
		OBS	0900	0413	34953	2776			14822								
		STD	1000	0386	3492	2776	0004404	0608	14827								
		OBS	1000	0386	34921	2776			14827								
		STD	1100	0376	3491	2776	0004423	0652	14840								
		OBS	1100	0376	34914	2776			14840								
		STD	1200	0371	3492	2778	0004388	0696	14854								
		OBS	1200	0371	34922	2778			14854								
		STD	1300	0374	3494	2779	0004394	0740	14873								
		OBS	1300	0374	34938	2779			14873								
		STD	1400	0376	3494	2779	0004459	0784	14890								
		OBS	1400	0376	34943	2779			14890								
		STD	1500	0377	3496	2780	0004433	0828	14908								
		OBS	1500	0377	34960	2780			14908								

REFERENCE CTRY CODE	REFERENCE IQ. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4203 N	04703 W		149	27	04	09	005	1968	001	10081	4300	1	34	2	4		X0	0	3		0042

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
0T	S0	30	S07	220	056	039	8	41	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ ΔD DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	S CD
		STD	0000	0476	3328	2636	0016726	0000	14677								
005		OBS	0000	0476	33280	2636			14677								
		OBS	0008	0476	33281	2636			14679								
		STD	0010	0448	3328	2639	0016436	0016	14667								
003		OBS	0010	0448	33281	2639			14667								
		STD	0020	0456	3329	2639	0016436	0033	14672								
		OBS	0020	0456	33293	2639			14672								
		OBS	0025	0462	33383	2646			14677								
		STD	0030	0442	3339	2649	0015566	0049	14669								
		OBS	0030	0442	33391	2649			14669								
		STD	0050	0496	3364	2663	0014243	0078	14699								
		OBS	0050	0496	33645	2663			14699								
		STD	0075	0692	3415	2678	0012849	0112	14788								
		OBS	0075	0692	34151	2678			14788								
		OBS	0088	0431	33981	2697			14682								
		STD	0100	0467	3408	2701	0010685	0142	14701								
		OBS	0100	0467	34085	2701			14701								
		OBS	0120	0452	34111	2705			14698								
		STD	0125	0507	3422	2707	0010100	0168	14723								
		OBS	0125	0507	34225	2707			14723								
		OBS	0145	0628	34483	2713			14779								
		STD	0150	0517	3437	2718	0009176	0192	14733								
		OBS	0150	0517	34368	2718			14733								
		OBS	0168	0332	34167	2721			14656								
		OBS	0172	0370	34227	2722			14674								
		OBS	0180	0328	34198	2724			14657								
		OBS	0191	0512	34472	2726			14739								
		STD	0200	0357	3426	2727	0008318	0235	14673								
		OBS	0200	0357	34263	2727			14673								
		OBS	0205	0436	34412	2730			14709								
		OBS	0221	0368	34326	2730			14682								
		STD	0250	0527	3461	2736	0007579	0275	14757								
		OBS	0250	0527	34613	2736			14757								
		OBS	0253	0497	34603	2739			14745								
		OBS	0280	0517	34633	2739			14758								
		OBS	0289	0458	34602	2743			14735								
		STD	0300	0517	3472	2745	0006725	0311	14763								
		OBS	0300	0517	34720	2745			14763								
		OBS	0311	0582	34828	2746			14792								
		OBS	0340	0542	34801	2749			14781								
		OBS	0350	0592	34888	2750			14804								
		STD	0400	0556	3491	2756	0005913	0374	14798								
		OBS	0400	0556	34910	2756			14798								
		STD	0500	0516	3496	2765	0005163	0430	14799								
		OBS	0500	0516	34961	2765			14799								
		STD	0600	0506	3499	2768	0004948	0480	14811								
		OBS	0600	0506	34989	2768			14811								
		STD	0700	0472	3497	2771	0004760	0529	14814								
		OBS	0700	0472	34973	2771			14814								
		STD	0800	0462	3498	2773	0004673	0576	14826								
		OBS	0800	0462	34983	2773			14826								
		STD	0900	0447	3499	2775	0004544	0622	14837								
		OBS	0900	0447	34990	2775			14837								
		STD	1000	0427	3497	2776	0004503	0667	14845								
		OBS	1000	0427	34975	2776			14845								
		STD	1100	0407	3495	2776	0004496	0712	14853								
		OBS	1100	0407	34955	2776			14853								
		STD	1200	0406	3496	2777	0004524	0757	14869								
		OBS	1200	0406	34962	2777			14869								
		STD	1300	0397	3496	2778	0004536	0803	14882								
		OBS	1300	0397	34958	2778			14882								
		STD	1400	0388	3496	2779	0004525	0848	14895								
		OBS	1400	0388	34956	2779			14895								
		STD	1500	0385	3496	2779	0004567	0893	14911								
		OBS	1500	0385	34956	2779			14911								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318	039	EV	4203 N	04602 W		149	26	04	09	048	1968	001	10082	4651	1	28	2	2		X0	0	3		0043

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	29	S17	220			7	32	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	
		STD	0000	1549	3617	2678	0012717	0000	15104								
048		OBS	0000	1549	36174	2678			15104								
		STD	0010	1549	3617	2678	0012749	0012	15105								
		OBS	0010	1549	36174	2678			15105								
		STD	0020	1551	3618	2678	0012799	0025	15108								
005		OBS	0020	1551	36178	2678			15108								
		OBS	0025	1551	36178	2678			15108								
		STD	0030	1551	3618	2678	0012831	0038	15109								
		OBS	0030	1551	36178	2678			15109								
		STD	0050	1551	3618	2678	0012894	0064	15113								
		OBS	0050	1551	36178	2678			15113								
		STD	0075	1551	3618	2678	0012973	0096	15117								
		OBS	0075	1551	36178	2678			15117								
		STD	0100	1551	3618	2678	0013043	0128	15121								
		OBS	0100	1551	36179	2678			15121								
		STD	0125	1552	3618	2678	0013140	0161	15125								
		OBS	0125	1552	36180	2678			15125								
		STD	0150	1553	3618	2678	0013227	0194	15130								
		OBS	0150	1553	36181	2678			15130								
		STD	0200	1553	3618	2678	0013384	0261	15138								
		OBS	0200	1553	36181	2678			15138								
		STD	0250	1553	3618	2678	0013541	0328	15146								
		OBS	0250	1553	36181	2678			15146								
		STD	0300	1555	3618	2678	0013724	0396	15155								
		OBS	0300	1555	36184	2678			15155								
		OBS	0302	1521	36085	2678			15143								
		OBS	0329	1446	35911	2681			15122								
		STD	0400	1357	3575	2688	0012968	0530	15103								
		OBS	0400	1357	35753	2688			15103								
		STD	0500	1270	3565	2697	0012263	0656	15089								
		OBS	0500	1270	35648	2697			15089								
		STD	0600	1062	3535	2713	0010791	0771	15029								
		OBS	0600	1062	35348	2713			15029								
		STD	0700	0856	3513	2731	0009076	0870	14967								
		OBS	0700	0856	35130	2731			14967								
		OBS	0760	0727	35059	2745			14927								
		STD	0800	0700	3505	2748	0007403	0953	14923								
		OBS	0800	0700	35053	2748			14923								
		OBS	0841	0639	35053	2756			14906								
		STD	0900	0637	3513	2762	0006092	1020	14916								
		OBS	0900	0637	35126	2762			14916								
		STD	1000	0567	3507	2767	0005653	1079	14904								
		OBS	1000	0567	35069	2767			14904								
		OBS	1034	0522	35028	2769			14890								
		OBS	1069	0527	35053	2771			14899								
		OBS	1079	0502	35025	2771			14890								
		STD	1100	0500	3502	2771	0005196	1133	14892								
		OBS	1100	0500	35023	2771			14892								
		STD	1200	0469	3502	2775	0004932	1184	14896								
		OBS	1200	0469	35018	2775			14896								
		STD	1300	0462	3501	2775	0004982	1233	14910								
		OBS	1300	0462	35013	2775			14910								
		STD	1400	0432	3498	2776	0004900	1283	14914								
		OBS	1400	0432	34983	2776			14914								
		STD	1500	0416	3496	2776	0004922	1332	14924								
		OBS	1500	0416	34964	2776			14924								

REFERENCE CTRY CODE	REFERENCE IQ. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDC'N	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4233 N	046435W		149	26	04	09	090	1968	001	10083	4480	1	28	3	2		X1	0	3		0044

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	28	S20	220	106	083	7	26	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	1642	3633	2669	0013631	0000	15134								
090		OBS	0000	1642	36328	2669			15134								
		STD	0010	1643	3633	2669	0013673	0013	15136								
		OBS	0010	1643	36330	2669			15136								
		STD	0020	1645	3633	2668	0013733	0027	15138								
003		OBS	0020	1645	36333	2668			15138								
		STD	0030	1645	3633	2668	0013766	0041	15140								
		OBS	0030	1645	36333	2668			15140								
		STD	0050	1645	3633	2668	0013832	0068	15143								
		OBS	0050	1645	36332	2668			15143								
		STD	0075	1644	3633	2668	0013915	0103	15147								
		OBS	0075	1644	36330	2668			15147								
		STD	0100	1643	3633	2669	0013988	0138	15151								
		OBS	0100	1643	36328	2669			15151								
		STD	0125	1642	3633	2669	0014015	0173	15155								
		OBS	0125	1642	36332	2669			15155								
		STD	0150	1619	3626	2669	0014073	0208	15151								
		OBS	0150	1619	36265	2669			15151								
		STD	0200	1600	3621	2670	0014175	0279	15153								
		OBS	0200	1600	36214	2670			15153								
		STD	0250	1567	3616	2673	0013979	0349	15150								
		OBS	0250	1567	36163	2673			15150								
		STD	0300	1564	3617	2675	0014026	0419	15158								
		OBS	0300	1564	36169	2675			15158								
		STD	0400	1507	3601	2675	0014264	0560	15154								
		OBS	0400	1507	36008	2675			15154								
		STD	0500	1227	3555	2698	0012126	0692	15073								
		OBS	0500	1227	35553	2698			15073								
		STD	0600	0938	3518	2722	0009848	0802	14982								
		OBS	0600	0938	35183	2722			14982								
		STD	0700	0737	3509	2746	0007517	0889	14921								
		OBS	0700	0737	35090	2746			14921								
		STD	0800	0567	3489	2753	0006693	0960	14868								
		OBS	0800	0567	34893	2753			14868								
		OBS	0870	0537	34973	2763			14869								
		STD	0900	0615	3514	2767	0005657	1022	14907								
		OBS	0900	0615	35143	2767			14907								
		OBS	0920	0636	35183	2767			14919								
		STD	1000	0586	3515	2771	0005306	1077	14912								
		OBS	1000	0586	35153	2771			14912								
		STD	1100	0507	3505	2773	0005082	1129	14896								
		OBS	1100	0507	35052	2773			14896								
		STD	1200	0448	3498	2774	0004917	1179	14887								
		OBS	1200	0448	34983	2774			14887								
		STD	1300	0436	3497	2774	0004955	1228	14899								
		OBS	1300	0436	34969	2774			14899								
		STD	1400	0412	3495	2776	0004860	1277	14905								
		OBS	1400	0412	34952	2776			14905								
		STD	1500	0406	3495	2776	0004870	1326	14920								
		OBS	1500	0406	34953	2776			14920								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DUPT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	42330N	047175W		149	27	04	09	121	1968	001	10084	3931	1	30	3	3		X1	0	3		0045

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	27	S16	217	100	078	7	35	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SOC
		STD	0000	1396	3567	2673	0013242	0000	15049								
121		OBS	0000	1396	35668	2673			15049								
		STD	0010	1397	3567	2673	0013289	0013	15051								
		OBS	0010	1397	35668	2673			15051								
		STD	0020	1396	3567	2673	0013300	0026	15052								
003		OBS	0020	1396	35668	2673			15052								
		OBS	0025	1396	35668	2673			15053								
		STD	0030	1396	3567	2673	0013329	0039	15054								
		OBS	0030	1396	35668	2673			15054								
		OBS	0045	1396	35668	2673			15056								
		STD	0050	1367	3562	2675	0013159	0066	15047								
		OBS	0050	1367	35620	2675			15047								
		STD	0075	1325	3553	2677	0013071	0099	15036								
		OBS	0075	1325	35528	2677			15036								
		OBS	0087	1303	35505	2680			15030								
		STD	0100	1326	3556	2679	0012905	0131	15041								
		OBS	0100	1326	35563	2679			15041								
		STD	0125	1289	3551	2683	0012605	0163	15032								
		OBS	0125	1289	35515	2683			15032								
		STD	0150	1282	3554	2687	0012319	0194	15034								
		OBS	0150	1282	35545	2687			15034								
		OBS	0184	1282	35548	2687			15040								
		STD	0200	1252	3548	2688	0012353	0256	15031								
		OBS	0200	1252	35481	2688			15031								
		OBS	0218	1191	35353	2690			15012								
		OBS	0221	1218	35418	2690			15022								
		OBS	0235	1177	35408	2697			15010								
		STD	0250	1207	3552	2700	0011329	0315	15025								
		OBS	0250	1207	35522	2700			15025								
		STD	0300	1147	3542	2703	0011082	0371	15011								
		OBS	0300	1147	35421	2703			15011								
		STD	0400	0942	3520	2723	0009361	0473	14951								
		OBS	0400	0942	35202	2723			14951								
		OBS	0455	0796	35013	2731			14903								
		OBS	0480	0805	35091	2736			14911								
		STD	0500	0694	3501	2746	0007138	0556	14871								
		OBS	0500	0694	35013	2746			14871								
		OBS	0557	0669	34998	2748			14870								
		STD	0600	0572	3491	2753	0006407	0624	14837								
		OBS	0600	0572	34906	2753			14837								
		OBS	0625	0613	35001	2756			14859								
		STD	0700	0516	3493	2762	0005608	0684	14831								
		OBS	0700	0516	34933	2762			14831								
		STD	0800	0524	3501	2768	0005261	0738	14852								
		OBS	0800	0524	35010	2768			14852								
		STD	0900	0489	3499	2771	0005033	0789	14854								
		OBS	0900	0489	34995	2771			14854								
		STD	1000	0456	3498	2773	0004829	0839	14857								
		OBS	1000	0456	34980	2773			14857								
		STD	1100	0455	3498	2773	0004913	0887	14873								
		OBS	1100	0455	34982	2773			14873								
		STD	1200	0434	3498	2775	0004780	0936	14881								
		OBS	1200	0434	34976	2775			14881								
		STD	1300	0421	3497	2776	0004733	0984	14893								
		OBS	1300	0421	34973	2776			14893								
		STD	1400	0415	3497	2776	0004800	1031	14907								
		OBS	1400	0415	34966	2776			14907								
		STD	1500	0411	3497	2777	0004799	1079	14922								
		OBS	1500	0411	34971	2777			14922								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIRECT LOCATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	43015N	04755 W		149	37	04	09	160	1968	001	10085	3310	1	25	4	2		X1	0	3		0046

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	22	S12	190	083	067	7	41	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0487	3336	2642	0016219	0000	14683								
160		OBS	0000	0487	33363	2642			14683								
		STD	0010	0968	3461	2672	0013317	0014	14889								
		OBS	0010	0968	34613	2672			14889								
		STD	0020	1011	3475	2676	0012996	0027	14908								
003		OBS	0020	1011	34753	2676			14908								
		OBS	0025	1037	34833	2678			14919								
		STD	0030	1095	3496	2678	0012870	0040	14942								
		OBS	0030	1095	34965	2678			14942								
		OBS	0042	1097	34982	2679			14945								
		STD	0050	1015	3483	2682	0012538	0066	14915								
		OBS	0050	1015	34833	2682			14915								
		OBS	0055	1055	34936	2683			14932								
		STD	0075	0857	3462	2691	0011656	0096	14858								
		OBS	0075	0857	34623	2691			14858								
		OBS	0090	1025	35077	2699			14929								
		STD	0100	1018	3507	2699	0010960	0124	14928								
		OBS	0100	1018	35068	2699			14928								
		OBS	0109	1006	35044	2700			14924								
		STD	0125	0857	3477	2703	0010641	0151	14868								
		OBS	0125	0857	34773	2703			14868								
		OBS	0140	0827	34778	2708			14860								
		STD	0150	0905	3499	2712	0009802	0177	14893								
		OBS	0150	0905	34992	2712			14893								
		OBS	0162	0917	35033	2714			14900								
		OBS	0176	0884	34974	2714			14890								
		STD	0200	0571	3447	2719	0009088	0224	14765								
		OBS	0200	0571	34473	2719			14765								
		OBS	0214	0261	34218	2732			14634								
		OBS	0231	0512	34593	2736			14748								
		OBS	0247	0410	34496	2740			14707								
		STD	0250	0497	3463	2741	0007103	0265	14745								
		OBS	0250	0497	34630	2741			14745								
		OBS	0275	0449	34576	2742			14729								
		OBS	0285	0547	34771	2746			14773								
		STD	0300	0557	3479	2747	0006646	0299	14780								
		OBS	0300	0557	34795	2747			14780								
		OBS	0310	0566	34818	2747			14786								
		OBS	0330	0447	34702	2752			14739								
		OBS	0350	0557	34873	2753			14789								
		STD	0400	0494	3486	2759	0005540	0360	14772								
		OBS	0400	0494	34858	2759			14772								
		OBS	0412	0473	34841	2760			14765								
		OBS	0432	0520	34953	2764			14789								
		STD	0500	0517	3499	2767	0004985	0413	14799								
		OBS	0500	0517	34986	2767			14799								
		STD	0600	0476	3495	2769	0004852	0462	14799								
		OBS	0600	0476	34953	2769			14799								
		STD	0700	0459	3495	2770	0004792	0510	14808								
		OBS	0700	0459	34948	2770			14808								
		STD	0800	0460	3496	2771	0004803	0558	14825								
		OBS	0800	0460	34962	2771			14825								
		STD	0900	0456	3497	2772	0004830	0606	14840								
		OBS	0900	0456	34966	2772			14840								
		STD	1000	0441	3495	2773	0004829	0654	14851								
		OBS	1000	0441	34955	2773			14851								
		STD	1100	0417	3493	2773	0004840	0703	14857								
		OBS	1100	0417	34926	2773			14857								
		STD	1200	0415	3492	2773	0004947	0752	14873								
		OBS	1200	0415	34921	2773			14873								
		STD	1300	0413	3494	2775	0004850	0801	14889								
		OBS	1300	0413	34943	2775			14889								
		OBS	1375	0389	34933	2777			14891								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPL INDEX	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	43030N	046520W		149	36	04	09	207	1968	001	10086	4023	1	20	3	2		X1	0	3		0047

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S25	135	150	122	7	37	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	S CO
		STD	0000	1666	3636	2666	0013930	0000	15142								
207		OBS	0000	1666	36361	2666			15142								
		STD	0010	1666	3636	2666	0013963	0013	15143								
		OBS	0010	1666	36361	2666			15143								
		STD	0020	1666	3636	2666	0013996	0027	15145								
003		OBS	0020	1666	36361	2666			15145								
		OBS	0025	1666	36361	2666			15146								
		STD	0030	1666	3636	2666	0014030	0041	15147								
		OBS	0030	1666	36361	2666			15147								
		STD	0050	1667	3636	2665	0014114	0070	15150								
		OBS	0050	1667	36361	2665			15150								
		STD	0075	1667	3636	2666	0014188	0105	15154								
		OBS	0075	1667	36363	2666			15154								
		STD	0100	1667	3636	2666	0014271	0141	15158								
		OBS	0100	1667	36363	2666			15158								
		STD	0125	1667	3636	2666	0014354	0176	15163								
		OBS	0125	1667	36363	2666			15163								
		STD	0150	1670	3637	2665	0014464	0212	15168								
		OBS	0150	1670	36368	2665			15168								
		STD	0200	1672	3636	2664	0014711	0285	15176								
		OBS	0200	1672	36363	2664			15176								
		OBS	0219	1655	36335	2666			15174								
		OBS	0222	1607	36223	2669			15159								
		STD	0250	1547	3604	2669	0014412	0358	15142								
		OBS	0250	1547	36043	2669			15142								
		STD	0300	1459	3589	2677	0013758	0429	15121								
		OBS	0300	1459	35895	2677			15121								
		OBS	0340	1438	35841	2677			15120								
		STD	0400	1317	3569	2691	0012617	0560	15089								
		OBS	0400	1317	35691	2691			15089								
		OBS	0461	1094	35372	2709			15018								
		STD	0500	1050	3531	2713	0010606	0677	15008								
		OBS	0500	1050	35313	2713			15008								
		OBS	0562	0846	35043	2726			14940								
		OBS	0573	0862	35095	2727			14948								
		STD	0600	0773	3495	2729	0008945	0774	14917								
		OBS	0600	0773	34947	2729			14917								
		OBS	0620	0706	34923	2737			14894								
		OBS	0650	0737	35013	2740			14912								
		STD	0700	0638	3500	2753	0006704	0853	14881								
		OBS	0700	0638	35005	2753			14881								
		OBS	0720	0710	35163	2755			14915								
		STD	0800	0677	3520	2763	0005956	0916	14916								
		OBS	0800	0677	35203	2763			14916								
		OBS	0810	0676	35205	2763			14917								
		OBS	0823	0603	35119	2766			14889								
		OBS	0863	0527	35006	2767			14864								
		STD	0900	0504	3497	2767	0005393	0973	14860								
		OBS	0900	0504	34973	2767			14860								
		STD	1000	0498	3502	2772	0005060	1025	14875								
		OBS	1000	0498	35023	2772			14875								
		STD	1100	0462	3498	2773	0004993	1075	14876								
		OBS	1100	0462	34983	2773			14876								
		STD	1200	0438	3497	2774	0004889	1125	14883								
		OBS	1200	0438	34968	2774			14883								
		OBS	1240	0410	34933	2774			14877								
		STD	1300	0410	3494	2775	0004823	1173	14888								
		OBS	1398	0398	34933	2776			14899								
		OBS	1300	0410	34941	2775			14888								
		OBS	1398	0398	34933	2776			14899								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	43043N	046020W		149	36	04	10	008	1968	001	10087	4680	1	32	4	2		X1	0	3		0048

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	21	S40	119			7	23	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SUS
		STD	0000	1552	3617	2677	0012826	0000	15105								
008		OBS	0000	1552	36168	2677			15105								
		STD	0010	1552	3617	2677	0012858	0012	15106								
		OBS	0010	1552	36168	2677			15106								
		STD	0020	1552	3617	2677	0012889	0025	15108								
001		OBS	0020	1552	36168	2677			15108								
		OBS	0025	1552	36168	2677			15109								
		STD	0030	1552	3617	2677	0012921	0038	15109								
		OBS	0030	1552	36168	2677			15109								
		STD	0050	1552	3617	2677	0012984	0064	15113								
		OBS	0050	1552	36168	2677			15113								
		STD	0075	1552	3617	2677	0013063	0097	15117								
		OBS	0075	1552	36168	2677			15117								
		STD	0100	1552	3617	2677	0013142	0129	15121								
		OBS	0100	1552	36168	2677			15121								
		STD	0125	1552	3617	2677	0013221	0162	15125								
		OBS	0125	1552	36168	2677			15125								
		STD	0150	1552	3617	2677	0013299	0195	15129								
		OBS	0150	1552	36168	2677			15129								
		STD	0200	1552	3617	2677	0013456	0262	15137								
		OBS	0200	1552	36168	2677			15137								
		STD	0250	1552	3617	2677	0013612	0330	15146								
		OBS	0250	1552	36168	2677			15146								
		STD	0300	1552	3617	2677	0013768	0399	15154								
		OBS	0300	1552	36168	2677			15154								
		OBS	0319	1550	36134	2675			15156								
		OBS	0340	1388	35750	2681			15103								
		OBS	0367	1371	35753	2685			15102								
		STD	0400	1247	3545	2687	0012980	0532	15062								
		OBS	0400	1247	35453	2687			15062								
		OBS	0452	1098	35306	2704			15017								
		OBS	0464	1117	35357	2704			15026								
		STD	0500	1082	3532	2708	0011103	0653	15020								
		OBS	0500	1082	35323	2708			15020								
		OBS	0540	0954	35166	2718			14978								
		STD	0600	0847	3508	2729	0009092	0754	14947								
		OBS	0600	0847	35083	2729			14947								
		OBS	0650	0757	35058	2740			14920								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4835 N	04610 W		149	86	04	12	085	1968	001	10088	1609	1	25	2	3		X2	0	3		0049

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S10	227	-006	-006	7	23	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	CODE
		STD	0000	-0024	3349	2692	0011397	0000	14461								
085		OBS	0000	-0024	33493	2692			14461								
		STD	0010	-0048	3347	2692	0011447	0011	14451								
		OBS	0010	-0048	33473	2692			14451								
		STD	0020	-0063	3346	2692	0011461	0022	14446								
002		OBS	0020	-0063	33463	2692			14446								
		OBS	0025	-0078	33458	2692			14440								
		STD	0030	-0065	3347	2692	0011375	0034	14447								
		OBS	0030	-0065	33473	2692			14447								
		STD	0050	0177	3442	2755	0005487	0051	14573								
		OBS	0050	0177	34423	2755			14573								
		STD	0075	0257	3457	2760	0004989	0064	14614								
		OBS	0075	0257	34573	2760			14614								
		STD	0100	0307	3464	2762	0004909	0076	14641								
		OBS	0100	0307	34643	2762			14641								
		STD	0125	0347	3470	2763	0004849	0088	14663								
		OBS	0125	0347	34703	2763			14663								
		STD	0150	0406	3482	2766	0004559	0100	14693								
		OBS	0150	0406	34823	2766			14693								
		STD	0200	0449	3490	2768	0004467	0123	14721								
		OBS	0200	0449	34903	2768			14721								
		STD	0250	0455	3493	2769	0004399	0145	14732								
		OBS	0250	0455	34928	2769			14732								
		STD	0300	0452	3494	2770	0004352	0167	14739								
		OBS	0300	0452	34938	2770			14739								
		STD	0400	0432	3494	2773	0004208	0210	14747								
		OBS	0400	0432	34941	2773			14747								
		STD	0500	0407	3492	2774	0004165	0251	14753								
		OBS	0500	0407	34923	2774			14753								
		STD	0600	0388	3492	2776	0004055	0292	14762								
		OBS	0600	0388	34922	2776			14762								
		STD	0700	0378	3492	2777	0004022	0333	14774								
		OBS	0700	0378	34923	2777			14774								
		STD	0800	0372	3492	2778	0004046	0373	14788								
		OBS	0800	0372	34923	2778			14788								
		STD	0900	0368	3493	2779	0004009	0414	14803								
		OBS	0900	0368	34933	2779			14803								
		STD	1000	0363	3493	2779	0004038	0454	14818								
		OBS	1000	0363	34933	2779			14818								
		STD	1100	0358	3494	2780	0004030	0494	14832								
		OBS	1100	0358	34938	2780			14832								
		STD	1200	0349	3494	2782	0003944	0534	14845								
		OBS	1200	0349	34945	2782			14845								
		STD	1300	0347	3495	2782	0003983	0574	14861								
		OBS	1300	0347	34948	2782			14861								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4817 N	04608 W		149	86	04	12	105	1968	001	10089	1235	1	25	2	3		X2	0	3		0050

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	22	S10	247	006	-011	7	21	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD CYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	-0058	3345	2690	0011578	0000	14445								
105		OBS	0000	-0058	33452	2690			14445								
		STD	0010	-0048	3346	2691	0011529	0011	14451								
		OBS	0010	-0048	33463	2691			14451								
		STD	0020	-0017	3357	2698	0010813	0022	14469								
002		OBS	0020	-0017	33573	2698			14469								
		OBS	0025	-0008	33603	2700			14474								
		STD	0030	0022	3372	2709	0009847	0033	14490								
		OBS	0030	0022	33723	2709			14490								
		STD	0050	0117	3409	2733	0007582	0050	14542								
		OBS	0050	0117	34093	2733			14542								
		STD	0075	0161	3427	2744	0006521	0068	14568								
		OBS	0075	0161	34273	2744			14568								
		STD	0100	0242	3443	2751	0005938	0083	14610								
		OBS	0100	0242	34433	2751			14610								
		STD	0125	0275	3453	2756	0005475	0098	14630								
		OBS	0125	0275	34533	2756			14630								
		STD	0150	0342	3466	2760	0005129	0111	14664								
		OBS	0150	0342	34663	2760			14664								
		STD	0200	0397	3475	2761	0005044	0136	14697								
		OBS	0200	0397	34753	2761			14697								
		OBS	0240	0436	34833	2764			14721								
		STD	0250	0406	3482	2766	0004656	0160	14710								
		OBS	0250	0406	34823	2766			14710								
		STD	0300	0430	3488	2768	0004516	0183	14729								
		OBS	0300	0430	34883	2768			14729								
		STD	0400	0451	3493	2770	0004486	0228	14755								
		OBS	0400	0451	34933	2770			14755								
		STD	0500	0435	3493	2772	0004404	0273	14765								
		OBS	0500	0435	34933	2772			14765								
		STD	0600	0418	3493	2774	0004313	0316	14774								
		OBS	0600	0418	34933	2774			14774								
		STD	0700	0402	3493	2775	0004260	0359	14784								
		OBS	0700	0402	34928	2775			14784								
		STD	0800	0389	3492	2776	0004240	0402	14795								
		OBS	0800	0389	34923	2776			14795								
		STD	0900	0379	3492	2777	0004211	0444	14808								
		OBS	0900	0379	34923	2777			14808								
		STD	1000	0374	3492	2777	0004242	0486	14822								
		OBS	1000	0374	34923	2777			14822								

REFERENCE: CTRY CODE	REFERENCE: ID. ND.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE ND.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4758 N	04607 W		149	76	04	12	125	1968	001	10090	0887	1	25	2	3		X2	0	3		0051

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	22	S10	240	028	022	7	26	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	STOP
		STD	0000	0072	3356	2693	0011343	0000	14506								
125		OBS	0000	0072	33562	2693			14506								
		STD	0010	0062	3355	2693	0011342	0011	14503								
		OBS	0010	0062	33555	2693			14503								
		STD	0020	0053	3355	2693	0011296	0022	14500								
001		OBS	0020	0053	33555	2693			14500								
		OBS	0025	0052	33573	2695			14501								
		STD	0030	0092	3379	2710	0009699	0033	14523								
		OBS	0030	0092	33793	2710			14523								
		STD	0050	0175	3391	2714	0009386	0052	14565								
		OBS	0050	0175	33906	2714			14565								
		OBS	0056	0214	34013	2719			14584								
		OBS	0066	0207	34043	2722			14583								
		STD	0075	0335	3433	2734	0007485	0073	14644								
		OBS	0075	0335	34333	2734			14644								
		OBS	0082	0377	34453	2740			14665								
		OBS	0096	0223	34291	2741			14599								
		STD	0100	0359	3451	2746	0006373	0090	14661								
		OBS	0100	0359	34513	2746			14661								
		OBS	0103	0276	34423	2747			14625								
		OBS	0110	0342	34535	2750			14656								
		OBS	0115	0284	34466	2750			14631								
		STD	0125	0328	3455	2752	0005798	0105	14653								
		OBS	0125	0328	34553	2752			14653								
		STD	0150	0355	3461	2755	0005611	0120	14669								
		OBS	0150	0355	34615	2755			14669								
		STD	0200	0436	3486	2766	0004631	0145	14715								
		OBS	0200	0436	34863	2766			14715								
		STD	0250	0457	3491	2768	0004544	0168	14732								
		OBS	0250	0457	34912	2768			14732								
		STD	0300	0454	3493	2769	0004435	0191	14740								
		OBS	0300	0454	34930	2769			14740								
		STD	0400	0440	3493	2771	0004359	0235	14750								
		OBS	0400	0440	34933	2771			14750								
		STD	0500	0394	3489	2773	0004238	0278	14747								
		OBS	0500	0394	34894	2773			14747								
		STD	0600	0386	3491	2775	0004150	0320	14760								
		OBS	0600	0386	34906	2775			14760								
		STD	0700	0377	3490	2776	0004154	0361	14773								
		OBS	0700	0377	34904	2776			14773								
		STD	0800	0373	3491	2776	0004164	0403	14788								
		OBS	0800	0373	34908	2776			14788								
		OBS	0820	0373	34908	2776			14792								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	47390N	04606 W		149	76	04	12	145	1968	001	10091	0511	1	24	2	3		X2	0	3		0052

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S10	247	033	022	7	27	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ△D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	S C O
		STD	0000	0417	3364	2671	0013432	0000	14657								
145		OBS	0000	0417	33638	2671			14657								
		OBS	0005	0407	33618	2670			14654								
		STD	0010	0317	3351	2670	0013501	0013	14615								
001		OBS	0010	0317	33508	2670			14615								
		STD	0020	0233	3348	2675	0013051	0026	14580								
		OBS	0020	0233	33478	2675			14580								
		OBS	0025	0203	33475	2677			14567								
		OBS	0027	0191	33481	2679			14562								
		STD	0030	0209	3367	2693	0011380	0039	14573								
		OBS	0030	0209	33675	2693			14573								
		OBS	0046	0414	33965	2697			14668								
		STD	0050	0415	3402	2702	0010564	0060	14670								
		OBS	0050	0415	34023	2702			14670								
		OBS	0062	0426	34153	2711			14678								
		OBS	0065	0402	34184	2716			14669								
		OBS	0068	0410	34226	2718			14674								
		STD	0075	0392	3428	2724	0008416	0084	14668								
		OBS	0075	0392	34281	2724			14668								
		OBS	0084	0417	34373	2729			14681								
		OBS	0090	0397	34425	2735			14674								
		STD	0100	0419	3446	2736	0007344	0104	14686								
		OBS	0100	0419	34463	2736			14686								
		OBS	0111	0337	34373	2737			14652								
		STD	0125	0379	3456	2748	0006202	0121	14674								
		OBS	0125	0379	34565	2748			14674								
		STD	0150	0413	3472	2757	0005381	0135	14695								
		OBS	0150	0413	34723	2757			14695								
		OBS	0178	0497	34883	2761			14737								
		STD	0200	0509	3494	2764	0004883	0161	14746								
		OBS	0200	0509	34938	2764			14746								
		OBS	0225	0504	34920	2763			14748								
		STD	0250	0461	3489	2766	0004735	0185	14734								
		OBS	0250	0461	34893	2766			14734								
		STD	0300	0453	3491	2768	0004586	0208	14739								
		OBS	0300	0453	34908	2768			14739								
		STD	0400	0412	3490	2772	0004269	0253	14738								
		OBS	0400	0412	34903	2772			14738								
		STD	0500	0409	3491	2773	0004283	0295	14754								
		OBS	0500	0409	34910	2773			14754								
		OBS	0511	0409	34910	2773			14755								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4719 N	04605 W		149	76	04	12	160	1968	001	10092	0346	1	24	2	2		X2	0	3		0053

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	S0	25	S06	240	028	022	7	15	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCD
		STD	0000	0433	3373	2676	0012925	0000	14665								
160		OBS	0000	0433	33727	2676			14665								
		STD	0010	0430	3372	2676	0012952	0012	14666								
		OBS	0010	0430	33721	2676			14666								
		STD	0020	0425	3375	2679	0012708	0025	14666								
001		OBS	0020	0425	33748	2679			14666								
		OBS	0025	0427	33771	2680			14668								
		STD	0030	0427	3377	2681	0012545	0038	14668								
		OBS	0030	0427	33773	2681			14668								
		STD	0050	0427	3381	2684	0012264	0063	14672								
		OBS	0050	0427	33813	2684			14672								
		OBS	0067	0338	33943	2703			14639								
		STD	0075	0407	3419	2716	0009231	0090	14673								
		OBS	0075	0407	34193	2716			14673								
		STD	0100	0459	3443	2729	0007994	0111	14702								
		OBS	0100	0459	34433	2729			14702								
		STD	0125	0450	3457	2741	0006873	0130	14704								
		OBS	0125	0450	34573	2741			14704								
		STD	0150	0470	3470	2749	0006195	0146	14718								
		OBS	0150	0470	34696	2749			14718								
		STD	0200	0500	3483	2757	0005553	0175	14741								
		OBS	0200	0500	34835	2757			14741								
		STD	0250	0486	3489	2762	0005055	0202	14744								
		OBS	0250	0486	34888	2762			14744								
		OBS	0280	0484	34893	2763			14748								
		STD	0300	0445	3487	2766	0004769	0227	14735								
		OBS	0300	0445	34871	2766			14735								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4702 N	04603 W		149	76	04	12	182	1968	001	10093	0320	1	24	2	2		X7	0	3		0054

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	22	S07	230	044	039	5	25	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCD
		STD	0000	0492	3373	2670	0013495	0000	14690								
182		OBS	0000	0492	33733	2670			14690								
		STD	0010	0486	3373	2670	0013487	0013	14689								
		OBS	0010	0486	33726	2670			14689								
		STD	0020	0487	3373	2671	0013452	0027	14691								
001		OBS	0020	0487	33734	2671			14691								
		OBS	0025	0487	33748	2672			14692								
		STD	0030	0490	3375	2672	0013345	0040	14694								
		OBS	0030	0490	33754	2672			14694								
		STD	0050	0496	3377	2673	0013294	0067	14700								
		OBS	0050	0496	33772	2673			14700								
		OBS	0055	0497	33813	2676			14702								
		STD	0075	0645	3429	2696	0011179	0097	14772								
		OBS	0075	0645	34293	2696			14772								
		OBS	0092	0853	34913	2714			14863								
		STD	0100	0818	3489	2718	0009123	0123	14851								
		OBS	0100	0818	34893	2718			14851								
		OBS	0114	0694	34703	2721			14803								
		OBS	0122	0704	34742	2723			14809								
		STD	0125	0660	3467	2724	0008621	0145	14791								
		OBS	0125	0660	34673	2724			14791								
		OBS	0130	0607	34593	2724			14770								
		OBS	0135	0620	34642	2727			14776								
		STD	0150	0585	3461	2729	0008137	0166	14764								
		OBS	0150	0585	34615	2729			14764								
		OBS	0157	0557	34621	2733			14754								
		OBS	0184	0562	34665	2736			14761								
		STD	0200	0474	3458	2739	0007188	0204	14727								
		OBS	0200	0474	34577	2739			14727								
		OBS	0205	0466	34593	2741			14724								
		OBS	0225	0480	34751	2752			14736								
		OBS	0235	0541	34856	2753			14764								
		STD	0250	0514	3482	2754	0005881	0237	14755								
		OBS	0250	0514	34820	2754			14755								
		OBS	0265	0477	34798	2756			14742								
		OBS	0280	0475	34813	2758			14743								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4702 N	04622 W		149	76	04	12	196	1968	001	10094	0320	1	24	2	2		X7	0	3		0055

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	14	S06	227	017	017	5	17	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	S C C
		STD	0000	0401	3349	2661	0014382	0000	14649								
196		OBS	0000	0401	33492	2661			14649								
		STD	0010	0400	3350	2661	0014345	0014	14650								
		OBS	0010	0400	33497	2661			14650								
		STD	0020	0394	3351	2663	0014171	0028	14649								
001		OBS	0020	0394	33513	2663			14649								
		OBS	0025	0393	33523	2664			14650								
		STD	0030	0394	3353	2665	0014052	0042	14651								
		OBS	0030	0394	33530	2665			14651								
		STD	0050	0367	3361	2674	0013188	0070	14644								
		OBS	0050	0367	33613	2674			14644								
		OBS	0065	0327	33797	2692			14632								
		STD	0075	0328	3389	2700	0010733	0099	14635								
		OBS	0075	0328	33893	2700			14635								
		STD	0100	0384	3424	2722	0008634	0124	14668								
		OBS	0100	0384	34245	2722			14668								
		STD	0125	0417	3449	2739	0007124	0143	14689								
		OBS	0125	0417	34493	2739			14689								
		STD	0150	0487	3469	2747	0006399	0160	14725								
		OBS	0150	0487	34694	2747			14725								
		OBS	0175	0557	34863	2752			14760								
		STD	0200	0578	3493	2755	0005752	0191	14774								
		OBS	0200	0578	34933	2755			14774								
		OBS	0219	0585	34951	2755			14780								
		OBS	0243	0491	34819	2756			14744								
		STD	0250	0490	3485	2759	0005363	0218	14745								
		OBS	0250	0490	34852	2759			14745								
		OBS	0295	0485	34875	2761			14751								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4702 N	04636 W		149	76	04	12	207	1968	001	10095	0393	1	24	2	2		X7	0	3		0056

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	14	S07	227	017	017	5	22	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	S C C
		STD	0000	0320	3352	2671	0013459	0000	14615								
207		OBS	0000	0320	33516	2671			14615								
		STD	0010	0251	3352	2677	0012866	0013	14586								
		OBS	0010	0251	33520	2677			14586								
		STD	0020	0221	3355	2682	0012417	0025	14575								
001		OBS	0020	0221	33549	2682			14575								
		OBS	0025	0221	33553	2682			14576								
		STD	0030	0221	3355	2682	0012375	0038	14577								
		OBS	0030	0221	33555	2682			14577								
		OBS	0035	0223	33573	2683			14579								
		STD	0050	0309	3393	2704	0010289	0060	14624								
		OBS	0050	0309	33928	2704			14624								
		OBS	0067	0439	34123	2707			14684								
		STD	0075	0278	3402	2715	0009315	0085	14616								
		OBS	0075	0278	34023	2715			14616								
		OBS	0082	0459	34360	2724			14698								
		OBS	0092	0474	34435	2728			14707								
		OBS	0095	0437	34444	2733			14692								
		STD	0100	0468	3451	2735	0007491	0106	14707								
		OBS	0100	0468	34513	2735			14707								
		OBS	0107	0457	34523	2737			14704								
		OBS	0110	0484	34593	2739			14716								
		STD	0125	0443	3460	2745	0006582	0124	14702								
		OBS	0125	0443	34602	2745			14702								
		STD	0150	0495	3479	2754	0005744	0139	14730								
		OBS	0150	0495	34794	2754			14730								
		STD	0200	0528	3490	2759	0005350	0167	14753								
		OBS	0200	0528	34905	2759			14753								
		STD	0250	0525	3497	2764	0004881	0192	14761								
		OBS	0250	0525	34972	2764			14761								
		STD	0300	0449	3489	2767	0004691	0216	14737								
		OBS	0300	0449	34888	2767			14737								
		OBS	0331	0472	34944	2768			14752								
		OBS	0350	0448	34917	2769			14745								

REFERENCE CTRY. CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDEX	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4702 N	04652 W		149	76	04	12	217	1968	001	10096	1207	1	24	3	3		X7	0	3		0057

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	09	S06	210	022	022	4	22	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCO
		STD	0000	0215	3350	2678	0012772	0000	14569								
217		OBS	0000	0215	33496	2678			14569								
		STD	0010	0214	3354	2682	0012413	0012	14570								
		OBS	0010	0214	33543	2682			14570								
		STD	0020	0209	3355	2683	0012317	0025	14570								
003		OBS	0020	0209	33551	2683			14570								
		OBS	0025	0208	33550	2683			14570								
		STD	0030	0206	3356	2684	0012212	0037	14571								
		OBS	0030	0206	33562	2684			14571								
		OBS	0039	0155	33593	2690			14550								
		STD	0050	0184	3391	2713	0009442	0058	14569								
		OBS	0050	0184	33908	2713			14569								
		STD	0075	0210	3413	2729	0007939	0080	14587								
		OBS	0075	0210	34133	2729			14587								
		STD	0100	0281	3443	2747	0006263	0098	14627								
		OBS	0100	0281	34433	2747			14627								
		STD	0125	0357	3456	2750	0005997	0113	14665								
		OBS	0125	0357	34563	2750			14665								
		STD	0150	0431	3475	2758	0005334	0127	14703								
		OBS	0150	0431	34755	2758			14703								
		STD	0200	0479	3490	2765	0004787	0153	14733								
		OBS	0200	0479	34905	2765			14733								
		STD	0250	0449	3490	2768	0004521	0176	14729								
		OBS	0250	0449	34903	2768			14729								
		STD	0300	0436	3490	2769	0004466	0198	14732								
		OBS	0300	0436	34898	2769			14732								
		STD	0400	0417	3491	2772	0004265	0242	14740								
		OBS	0400	0417	34911	2772			14740								
		STD	0500	0416	3493	2774	0004202	0284	14757								
		OBS	0500	0416	34931	2774			14757								
		STD	0600	0397	3492	2774	0004202	0326	14765								
		OBS	0600	0397	34916	2774			14765								
		STD	0700	0380	3491	2776	0004133	0368	14775								
		OBS	0700	0380	34912	2776			14775								
		STD	0800	0376	3491	2776	0004170	0410	14790								
		OBS	0800	0376	34913	2776			14790								
		STD	0900	0369	3491	2777	0004171	0451	14803								
		OBS	0900	0369	34913	2777			14803								
		STD	1000	0365	3491	2777	0004212	0493	14818								
		OBS	1000	0365	34913	2777			14818								
		STD	1100	0361	3492	2778	0004188	0535	14833								
		OBS	1100	0361	34921	2778			14833								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47020N	047060W		149	77	04	12	232	1968	001	10097	1189	1	24	3	3		X7	0	3		0058

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OF FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	09	S06	159	022	022	4	28	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0000	3318	2666	0013884	0000	14468								
232		OBS	0000	0000	33181	2666			14468								
		OBS	0002	0018	33281	2673			14478								
		STD	0010	0010	3331	2676	0012959	0013	14476								
003		OBS	0010	0010	33308	2676			14476								
		STD	0020	0012	3352	2693	0011330	0025	14481								
		OBS	0020	0012	33523	2693			14481								
		OBS	0025	0022	33545	2694			14487								
		STD	0030	-0008	3356	2697	0010974	0036	14474								
		OBS	0030	-0008	33557	2697			14474								
		OBS	0035	-0019	33645	2704			14471								
		STD	0050	0075	3391	2721	0008686	0056	14520								
		OBS	0050	0075	33913	2721			14520								
		OBS	0055	0097	33973	2724			14532								
		OBS	0060	0075	34032	2730			14524								
		STD	0075	0162	3428	2745	0006449	0075	14568								
		OBS	0075	0162	34283	2745			14568								
		STD	0100	0267	3452	2755	0005484	0090	14622								
		OBS	0100	0267	34521	2755			14622								
		STD	0125	0362	3466	2758	0005314	0103	14669								
		OBS	0125	0362	34661	2758			14669								
		OBS	0142	0401	34722	2759			14689								
		STD	0150	0391	3471	2759	0005229	0116	14686								
		OBS	0150	0391	34713	2759			14686								
		OBS	0155	0380	34711	2760			14682								
		OBS	0166	0427	34825	2764			14705								
		STD	0200	0445	3487	2765	0004690	0141	14719								
		OBS	0200	0445	34868	2765			14719								
		STD	0250	0449	3489	2767	0004647	0165	14729								
		OBS	0250	0449	34887	2767			14729								
		STD	0300	0451	3490	2768	0004603	0188	14738								
		OBS	0300	0451	34903	2768			14738								
		STD	0400	0442	3492	2770	0004460	0233	14751								
		OBS	0400	0442	34923	2770			14751								
		STD	0500	0426	3492	2772	0004375	0277	14761								
		OBS	0500	0426	34923	2772			14761								
		STD	0600	0407	3492	2774	0004297	0321	14769								
		OBS	0600	0407	34918	2774			14769								
		STD	0700	0389	3491	2775	0004264	0363	14778								
		OBS	0700	0389	34908	2775			14778								
		STD	0800	0377	3491	2776	0004216	0406	14790								
		OBS	0800	0377	34908	2776			14790								
		STD	0900	0370	3490	2776	0004253	0448	14804								
		OBS	0900	0370	34903	2776			14804								
		STD	1000	0366	3491	2777	0004258	0491	14819								
		OBS	1000	0366	34908	2777			14819								
		STD	1100	0362	3491	2778	0004261	0533	14834								
		OBS	1100	0362	34913	2778			14834								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47020N	047210W		149	77	04	13	006	1968	001	10098	0528	1	24	2	3		X4	0	3		0059

WATER COLDR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	36	S04	203	011	011	4	19	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	$\Sigma\Delta D$ DYN. M. $x\ 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCO
		STD	0000	-0056	3298	2652	0015215	0000	14439								
	006	OBS	0000	-0056	32978	2652			14439								
		STD	0010	-0064	3301	2655	0014911	0015	14437								
		OBS	0010	-0064	33013	2655			14437								
		STD	0020	-0066	3304	2658	0014680	0029	14439								
	001	OBS	0020	-0066	33041	2658			14439								
		OBS	0025	-0065	33051	2658			14440								
		STD	0030	-0067	3305	2658	0014621	0044	14440								
		OBS	0030	-0067	33048	2658			14440								
		STD	0050	-0096	3320	2672	0013323	0072	14432								
		OBS	0050	-0096	33203	2672			14432								
		OBS	0067	-0076	33366	2684			14446								
		STD	0075	0008	3346	2689	0011743	0103	14488								
		OBS	0075	0008	33465	2689			14488								
		OBS	0087	0003	33598	2700			14489								
		OBS	0099	0040	33693	2705			14509								
		STD	0100	0066	3377	2710	0009723	0130	14522								
		OBS	0100	0066	33770	2710			14522								
		OBS	0112	0048	33898	2721			14518								
		STD	0125	0091	3419	2742	0006666	0151	14544								
		OBS	0125	0091	34193	2742			14544								
		STD	0150	0195	3431	2745	0006495	0167	14596								
		OBS	0150	0195	34313	2745			14596								
		STD	0200	0272	3451	2754	0005674	0198	14640								
		OBS	0200	0272	34510	2754			14640								
		STD	0250	0350	3465	2758	0005358	0225	14684								
		OBS	0250	0350	34653	2758			14684								
		STD	0300	0401	3477	2762	0005060	0251	14715								
		OBS	0300	0401	34768	2762			14715								
		STD	0400	0442	3488	2767	0004764	0300	14750								
		OBS	0400	0442	34881	2767			14750								
		OBS	0460	0446	34906	2768			14762								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4702 N	04732 W		149	77	04	13	016	1968	001	10099	0247	1	24	2	3		X7	0	3		0060

WATER COLDR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	36	S06	203	011	011	4	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	$\Sigma\Delta D$ DYN. M. $x\ 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCO
		STD	0000	-0073	3282	2640	0016337	0000	14429								
	016	OBS	0000	-0073	32823	2640			14429								
		STD	0010	-0100	3287	2645	0015860	0016	14419								
		OBS	0010	-0100	32873	2645			14419								
		STD	0020	-0102	3293	2650	0015393	0031	14420								
	001	OBS	0020	-0102	32933	2650			14420								
		OBS	0025	-0100	32968	2653			14422								
		STD	0030	-0099	3297	2653	0015088	0047	14424								
		OBS	0030	-0099	32973	2653			14424								
		STD	0050	-0043	3317	2667	0013747	0075	14456								
		OBS	0050	-0043	33173	2667			14456								
		OBS	0065	0002	33223	2669			14480								
		OBS	0070	-0016	33273	2674			14473								
		STD	0075	0007	3331	2676	0012889	0109	14485								
		OBS	0075	0007	33313	2676			14485								
		OBS	0080	-0004	33313	2677			14481								
		STD	0100	0020	3343	2685	0012038	0140	14497								
		OBS	0100	0020	33433	2685			14497								
		STD	0125	0042	3364	2701	0010553	0168	14514								
		OBS	0125	0042	33643	2701			14514								
		STD	0150	0112	3389	2717	0009083	0193	14553								
		OBS	0150	0112	33893	2717			14553								
		STD	0200	0192	3425	2740	0006945	0233	14602								
		OBS	0200	0192	34253	2740			14602								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
318039		EV	4702 N	04747 W		149	77	04	13	027	1968	001	10100	0190	1	24	2	3		X7	0	3	0061

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	32	S04	203	011	011	8	12	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	$\Sigma\Delta D$ DYN. M. $x 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	-0025	3269	2628	0017541	0000	14449								
027		OBS	0000	-0025	32689	2628			14449								
		STD	0010	-0031	3272	2631	0017256	0017	14449								
		OBS	0010	-0031	32723	2631			14449								
		STD	0020	-0052	3276	2634	0016879	0034	14441								
001		OBS	0020	-0052	32761	2634			14441								
		OBS	0025	-0050	32771	2635			14443								
		STD	0030	-0057	3277	2635	0016820	0051	14440								
		OBS	0030	-0057	32766	2635			14440								
		STD	0050	-0076	3278	2637	0016626	0084	14435								
		OBS	0050	-0076	32781	2637			14435								
		OBS	0063	-0076	32731	2633			14437								
		OBS	0069	-0122	32721	2634			14416								
		STD	0075	-0121	3290	2648	0015554	0125	14420								
		OBS	0075	-0121	32899	2648			14420								
		STD	0100	-0018	3328	2675	0013048	0160	14477								
		OBS	0100	-0018	33276	2675			14477								
		STD	0125	0041	3352	2692	0011464	0191	14512								
		OBS	0125	0041	33523	2692			14512								
		STD	0150	0075	3365	2700	0010664	0219	14533								
		OBS	0150	0075	33653	2700			14533								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
318039		EV	47020N	048060W		149	78	04	13	047	1968	001	10101	0155	1	24	2	3		X4	0	3	0062

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	00	S00	203			4	12	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	$\Sigma\Delta D$ DYN. M. $x 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	-0030	3267	2627	0017650	0000	14447								
047		OBS	0000	-0030	32673	2627			14447								
		OBS	0001	-0021	32697	2628			14451								
		STD	0010	-0021	3270	2628	0017465	0017	14453								
001		OBS	0010	-0021	32701	2628			14453								
		STD	0020	-0024	3271	2630	0017352	0035	14453								
		OBS	0020	-0024	32714	2630			14453								
		OBS	0025	-0027	32714	2630			14453								
		STD	0030	-0031	3272	2630	0017302	0052	14452								
		OBS	0030	-0031	32716	2630			14452								
		STD	0050	-0035	3272	2631	0017202	0086	14453								
		OBS	0050	-0035	32725	2631			14453								
		STD	0075	-0072	3278	2636	0016658	0129	14441								
		OBS	0075	-0072	32776	2636			14441								
		OBS	0083	-0102	32893	2647			14430								
		STD	0100	0043	3317	2663	0014167	0167	14504								
		OBS	0100	0043	33169	2663			14504								
		STD	0125	0029	3337	2680	0012551	0201	14504								
		OBS	0125	0029	33371	2680			14504								
		OBS	0129	0034	33382	2681			14507								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44385N	04921 W		149	49	04	13	170	1968	001	10102	0060	1	06	2	2		X0	0	3		0063

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	32	S05	305	072	056	7	08	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0194	3290	2632	0017116	0000	14551								
170		OBS	0000	0194	32903	2632			14551								
		OBS	0005	0146	32875	2633			14530								
		STD	0010	0142	3287	2633	0016998	0017	14529								
001		OBS	0010	0142	32873	2633			14529								
		STD	0020	0141	3288	2634	0016972	0034	14531								
		OBS	0020	0141	32876	2634			14531								
		OBS	0025	0141	32878	2634			14531								
		STD	0030	0141	3288	2634	0016954	0051	14532								
		OBS	0030	0141	32879	2634			14532								
		STD	0050	0141	3288	2634	0016946	0084	14536								
		OBS	0050	0141	32880	2634			14536								
		OBS	0053	0141	32880	2634			14536								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4435 N	049035W		149	49	04	13	183	1968	001	10103	1024	1	06	2	2		X0	0	3		0064

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	27	S03	305	072	056	7	24	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0036	3276	2631	0017260	0000	14478								
183		OBS	0000	0036	32762	2631			14478								
		STD	0010	0026	3277	2632	0017122	0017	14476								
		OBS	0010	0026	32773	2632			14476								
		STD	0020	0026	3277	2632	0017119	0034	14477								
003		OBS	0020	0026	32773	2632			14477								
		OBS	0025	0025	32773	2632			14478								
		STD	0030	0025	3278	2633	0017035	0051	14479								
		OBS	0030	0025	32783	2633			14479								
		OBS	0049	0050	32824	2635			14494								
		STD	0050	0042	3282	2635	0016833	0085	14490								
		OBS	0050	0042	32820	2635			14490								
		OBS	0062	-0080	32908	2647			14437								
		STD	0075	-0085	3301	2656	0014839	0124	14438								
		OBS	0075	-0085	33008	2656			14438								
		OBS	0085	-0083	33063	2660			14442								
		STD	0100	-0041	3318	2668	0013664	0160	14465								
		OBS	0100	-0041	33183	2668			14465								
		STD	0125	-0071	3326	2676	0012912	0193	14457								
		OBS	0125	-0071	33263	2676			14457								
		OBS	0143	-0095	33313	2681			14449								
		STD	0150	-0083	3345	2692	0011408	0224	14458								
		OBS	0150	-0083	33453	2692			14458								
		STD	0200	0167	3418	2736	0007292	0270	14590								
		OBS	0200	0167	34181	2736			14590								
		STD	0250	0292	3448	2750	0006086	0304	14657								
		OBS	0250	0292	34483	2750			14657								
		STD	0300	0362	3468	2760	0005292	0332	14698								
		OBS	0300	0362	34684	2760			14698								
		STD	0400	0415	3481	2764	0004962	0384	14738								
		OBS	0400	0415	34815	2764			14738								
		STD	0500	0427	3488	2769	0004690	0432	14761								
		OBS	0500	0427	34883	2769			14761								
		STD	0600	0414	3489	2771	0004575	0478	14772								
		OBS	0600	0414	34891	2771			14772								
		STD	0700	0407	3489	2772	0004580	0524	14786								
		OBS	0700	0407	34893	2772			14786								
		STD	0800	0397	3489	2773	0004558	0570	14798								
		OBS	0800	0397	34893	2773			14798								
		STD	0900	0385	3489	2774	0004508	0615	14810								
		OBS	0900	0385	34893	2774			14810								
		OBS	0962	0378	34902	2775			14817								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTN	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	4432 N	04849 W		149	48	04	13	197	1968	001	10104	2377	1	06	2	2		X0	0	3		0065

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	27	S04	312	078	061	8	38	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0166	3293	2636	0016699	0000	14539								
197		OBS	0000	0166	32933	2636			14539								
		OBS	0002	0115	33073	2651			14519								
		STD	0010	0366	3350	2665	0013973	0015	14636								
003		OBS	0010	0366	33503	2665			14636								
		STD	0020	0487	3377	2674	0013190	0028	14692								
		OBS	0020	0487	33769	2674			14692								
		OBS	0025	0578	33913	2674			14732								
		STD	0030	0599	3410	2686	0012033	0041	14743								
		OBS	0030	0599	3495P	2754P											
		STD	0050	0838	3447	2682	0012438	0066	14845								
		OBS	0050	0838	34473	2682			14845								
		STD	0075	0562	3415	2695	0011218	0095	14737								
		OBS	0075	0562	34153	2695			14737								
		OBS	0080	0504	34158	2703			14714								
		OBS	0096	0523	34208	2704			14725								
		STD	0100	0507	3421	2706	0010171	0122	14719								
		OBS	0100	0507	34212	2706			14719								
		OBS	0104	0479	34203	2709			14708								
		OBS	0113	0597	34413	2711			14760								
		STD	0125	0470	3430	2717	0009151	0146	14709								
		OBS	0125	0470	34298	2717			14709								
		STD	0150	0655	3471	2727	0008341	0168	14794								
		OBS	0150	0655	34707	2727			14794								
		OBS	0155	0713	34816	2728			14819								
		OBS	0175	0601	34645	2729			14775								
		OBS	0192	0696	34871	2734			14819								
		STD	0200	0561	3468	2737	0007400	0207	14764								
		OBS	0200	0561	34683	2737			14764								
		OBS	0212	0460	34534	2737			14722								
		OBS	0226	0510	34646	2740			14747								
		OBS	0241	0455	34595	2743			14726								
		STD	0250	0505	3470	2746	0006649	0242	14749								
		OBS	0250	0505	34703	2746			14749								
		STD	0300	0444	3471	2753	0005945	0274	14732								
		OBS	0300	0444	34712	2753			14732								
		OBS	0325	0506	34853	2757			14764								
		OBS	0342	0383	34693	2758			14714								
		STD	0400	0432	3481	2762	0005167	0329	14745								
		OBS	0400	0432	34813	2762			14745								
		STD	0500	0441	3488	2767	0004841	0379	14767								
		OBS	0500	0441	34884	2767			14767								
		STD	0600	0439	3491	2769	0004745	0427	14783								
		OBS	0600	0439	34907	2769			14783								
		STD	0700	0416	3490	2771	0004622	0474	14790								
		OBS	0700	0416	34901	2771			14790								
		STD	0800	0401	3491	2774	0004467	0520	14800								
		OBS	0800	0401	34911	2774			14800								
		STD	0900	0402	3492	2774	0004483	0564	14817								
		OBS	0900	0402	34923	2774			14817								
		STD	1000	0387	3491	2775	0004478	0609	14827								
		OBS	1000	0387	34912	2775			14827								
		STD	1100	0375	3490	2775	0004526	0654	14839								
		OBS	1100	0375	34898	2775			14839								
		STD	1200	0375	3491	2776	0004541	0700	14856								
		OBS	1200	0375	34907	2776			14856								
		STD	1300	0374	3491	2777	0004570	0745	14872								
		OBS	1300	0374	34913	2777			14872								
		STD	1400	0370	3491	2777	0004606	0791	14887								
		OBS	1400	0370	34913	2777			14887								
		STD	1500	0367	3492	2778	0004581	0837	14903								
		OBS	1500	0367	34923	2778			14903								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4429 N	04833 W		149	48	04	13	212	1968	001	10105	2803	1	07	1	2		X0	0	3		0066

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	S0	27	S04	322	067	044	8	33	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SUO
		STD	0000	1244	3544	2687	0011949	0000	14995								
212		OBS	0000	1244	35443	2687			14995								
		STD	0010	1192	3535	2690	0011667	0011	14978								
		OBS	0010	1192	35355	2690			14978								
		STD	0020	1193	3536	2690	0011692	0023	14980								
003		OBS	0020	1193	35357	2690			14980								
		OBS	0025	1193	35353	2689			14981								
		STD	0030	1190	3535	2690	0011691	0035	14981								
		OBS	0030	1190	35353	2690			14981								
		STD	0050	1226	3547	2692	0011528	0058	14998								
		OBS	0050	1226	35473	2692			14998								
		OBS	0069	1256	35563	2693			15012								
		STD	0075	1132	3529	2696	0011192	0086	14967								
		OBS	0075	1132	35295	2696			14967								
		STD	0100	1137	3537	2702	0010776	0114	14974								
		OBS	0100	1137	35372	2702			14974								
		OBS	0111	1171	35483	2704			14989								
		STD	0125	1170	3547	2703	0010692	0141	14991								
		OBS	0125	1170	35473	2703			14991								
		STD	0150	1115	3536	2705	0010568	0167	14974								
		OBS	0150	1115	35363	2705			14974								
		STD	0200	0832	3497	2722	0008926	0216	14874								
		OBS	0200	0832	34973	2722			14874								
		STD	0250	0658	3474	2729	0008258	0259	14812								
		OBS	0250	0658	34743	2729			14812								
		OBS	0265	0704	34856	2732			14834								
		OBS	0295	0556	34653	2735			14777								
		STD	0300	0578	3472	2738	0007451	0298	14788								
		OBS	0300	0578	34722	2738			14788								
		OBS	0320	0677	34915	2740			14833								
		OBS	0345	0516	34736	2747			14770								
		OBS	0351	0546	34822	2750			14784								
		STD	0400	0520	3487	2757	0005789	0364	14782								
		OBS	0400	0520	34867	2757			14782								
		OBS	0415	0476	34815	2758			14766								
		STD	0500	0510	3495	2764	0005201	0419	14796								
		OBS	0500	0510	34946	2764			14796								
		STD	0600	0476	3496	2769	0004789	0469	14799								
		OBS	0600	0476	34961	2769			14799								
		STD	0700	0457	3496	2771	0004691	0517	14807								
		OBS	0700	0457	34958	2771			14807								
		STD	0800	0429	3495	2774	0004530	0563	14812								
		OBS	0800	0429	34948	2774			14812								
		STD	0900	0424	3495	2774	0004566	0608	14827								
		OBS	0900	0424	34948	2774			14827								
		STD	1000	0406	3495	2776	0004444	0653	14836								
		OBS	1000	0406	34948	2776			14836								
		STD	1100	0404	3495	2777	0004479	0698	14852								
		OBS	1100	0404	34953	2777			14852								
		STD	1200	0408	3497	2778	0004495	0743	14870								
		OBS	1200	0408	34970	2778			14870								
		STD	1300	0398	3496	2778	0004521	0788	14883								
		OBS	1300	0398	34961	2778			14883								
		STD	1400	0381	3494	2778	0004519	0833	14892								
		OBS	1400	0381	34944	2778			14892								
		STD	1500	0374	3494	2779	0004545	0878	14906								
		OBS	1500	0374	34940	2779			14906								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4426 N	04818 W		149	48	04	13	226	1968	001	10106	3182	1	06	1	3		X1	0	3		0067

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	S0	32	S04	328	067	044	7	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	S.D.D.
		STD	0000	1336	3575	2692	0011424	0000	15030								
226		OBS	0000	1336	35754	2692			15030								
		STD	0010	1331	3575	2693	0011353	0011	15030								
		OBS	0010	1331	35754	2693			15030								
		STD	0020	1329	3575	2693	0011354	0022	15031								
003		OBS	0020	1329	35753	2693			15031								
		OBS	0025	1326	35748	2694			15031								
		STD	0030	1321	3574	2694	0011309	0034	15030								
		OBS	0030	1321	35741	2694			15030								
		STD	0050	1306	3570	2694	0011355	0056	15028								
		OBS	0050	1306	35703	2694			15028								
		STD	0075	1241	3553	2694	0011415	0085	15008								
		OBS	0075	1241	35535	2694			15008								
		STD	0100	1231	3553	2696	0011344	0113	15008								
		OBS	0100	1231	35528	2696			15008								
		STD	0125	1225	3551	2696	0011390	0142	15010								
		OBS	0125	1225	35515	2696			15010								
		STD	0150	1213	3549	2696	0011407	0170	15010								
		OBS	0150	1213	35491	2696			15010								
		STD	0200	0813	3477	2710	0010106	0224	14864								
		OBS	0200	0813	34775	2710			14864								
		OBS	0201	0787	34776	2714			14854								
		OBS	0240	0788	34793	2715			14861								
		STD	0250	0889	3507	2721	0009157	0272	14905								
		OBS	0250	0889	35073	2721			14905								
		OBS	0265	0651	34663	2724			14810								
		OBS	0291	0821	35046	2730			14886								
		STD	0300	0772	3502	2735	0007914	0315	14868								
		OBS	0300	0772	3595P	2808P											
		OBS	0350	0628	34933	2748			14819								
		STD	0400	0630	3500	2754	0006178	0385	14829								
		OBS	0400	0630	35003	2754			14829								
		STD	0500	0520	3496	2764	0005203	0442	14800								
		OBS	0500	0520	34962	2764			14800								
		STD	0600	0480	3496	2769	0004831	0492	14800								
		OBS	0600	0480	34962	2769			14800								
		STD	0700	0447	3495	2772	0004603	0539	14803								
		OBS	0700	0447	34953	2772			14803								
		STD	0800	0432	3496	2774	0004456	0585	14814								
		OBS	0800	0432	34963	2774			14814								
		STD	0900	0425	3496	2775	0004453	0629	14827								
		OBS	0900	0425	34965	2775			14827								
		STD	1000	0418	3500	2779	0004224	0673	14842								
		OBS	1000	0418	34998	2779			14842								
		STD	1100	0408	3498	2778	0004330	0715	14854								
		OBS	1100	0408	34980	2778			14854								
		STD	1200	0397	3497	2779	0004348	0759	14866								
		OBS	1200	0397	34971	2779			14866								
		STD	1300	0393	3497	2779	0004382	0802	14881								
		OBS	1300	0393	34972	2779			14881								
		STD	1400	0384	3497	2780	0004362	0846	14894								
		OBS	1400	0384	34971	2780			14894								
		STD	1500	0375	3497	2781	0004338	0890	14907								
		OBS	1500	0375	34970	2781			14907								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4423 N	04803 W		149	48	04	14	006	1968	001	10107	3500	1	06	2	4		X0	0	3		0068

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	00	500	328	089	056	7	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	1227	3551	2695	0011117	0000	14990								
006		OBS	0000	1227	35513	2695			14990								
		STD	0010	1227	3551	2695	0011143	0011	14992								
		OBS	0010	1227	35513	2695			14992								
		STD	0020	1227	3551	2695	0011169	0022	14994								
003		OBS	0020	1227	35513	2695			14994								
		OBS	0025	1227	35513	2695			14995								
		STD	0030	1227	3551	2695	0011196	0033	14995								
		OBS	0030	1227	35513	2695			14995								
		STD	0050	1226	3551	2696	0011230	0055	14998								
		OBS	0050	1226	35513	2696			14998								
		STD	0075	1222	3551	2696	0011268	0084	15001								
		OBS	0075	1222	35507	2696			15001								
		STD	0100	1221	3551	2696	0011324	0112	15005								
		OBS	0100	1221	35506	2696			15005								
		STD	0125	1204	3547	2697	0011322	0140	15003								
		OBS	0125	1204	35472	2697			15003								
		STD	0150	1181	3541	2696	0011398	0169	14998								
		OBS	0150	1181	35412	2696			14998								
		OBS	0180	1175	35403	2697			15001								
		STD	0200	0997	3499	2697	0011381	0225	14935								
		OBS	0200	0997	34993	2697			14935								
		OBS	0235	0876	34951	2714			14896								
		STD	0250	1005	3525	2716	0009738	0278	14950								
		OBS	0250	1005	35250	2716			14950								
		STD	0300	0822	3491	2719	0009402	0326	14886								
		OBS	0300	0822	34913	2719			14886								
		OBS	0340	0638	34772	2734			14819								
		OBS	0350	0657	34843	2737			14829								
		OBS	0370	0582	34783	2743			14802								
		STD	0400	0597	3483	2745	0007009	0408	14813								
		OBS	0400	0597	34833	2745			14813								
		STD	0500	0552	3497	2761	0005527	0471	14813								
		OBS	0500	0552	34972	2761			14813								
		STD	0600	0487	3495	2767	0004984	0523	14803								
		OBS	0600	0487	34953	2767			14803								
		STD	0700	0457	3497	2772	0004575	0571	14808								
		OBS	0700	0457	34973	2772			14808								
		STD	0800	0445	3496	2773	0004614	0617	14819								
		OBS	0800	0445	34963	2773			14819								
		STD	0900	0432	3497	2775	0004486	0663	14830								
		OBS	0900	0432	34972	2775			14830								
		STD	1000	0417	3496	2776	0004488	0708	14841								
		OBS	1000	0417	34960	2776			14841								
		STD	1100	0403	3495	2777	0004467	0752	14851								
		OBS	1100	0403	34953	2777			14851								
		STD	1200	0396	3495	2777	0004478	0797	14865								
		OBS	1200	0396	34952	2777			14865								
		STD	1300	0385	3494	2778	0004481	0842	14877								
		OBS	1300	0385	34944	2778			14877								
		STD	1400	0378	3494	2779	0004483	0887	14891								
		OBS	1400	0378	34944	2779			14891								
		STD	1500	0377	3494	2779	0004556	0932	14908								
		OBS	1500	0377	34944	2779			14908								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEA-THER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44210N	047520W		149	47	04	14	017	1968	001	10108	3640	1	06	2	4		X0	0	3		0069

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	00	S00	328	089	056	7	26	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	S U
		STD	0000	1324	3569	2690	0011641	0000	15025								
017		OBS	0000	1324	35692	2690			15025								
		STD	0010	1323	3569	2690	0011651	0011	15027								
		OBS	0010	1323	35692	2690			15027								
		STD	0020	1313	3567	2691	0011624	0023	15025								
002		OBS	0020	1313	35673	2691			15025								
		OBS	0025	1313	35672	2690			15026								
		STD	0030	1313	3567	2690	0011661	0034	15026								
		OBS	0030	1313	35672	2690			15026								
		STD	0050	1313	3567	2690	0011717	0058	15030								
		OBS	0050	1313	35672	2690			15030								
		STD	0075	1313	3567	2690	0011786	0087	15034								
		OBS	0075	1313	35672	2690			15034								
		STD	0100	1316	3568	2690	0011874	0117	15039								
		OBS	0100	1316	35678	2690			15039								
		STD	0125	1316	3568	2691	0011916	0147	15043								
		OBS	0125	1316	35681	2691			15043								
		OBS	0139	1307	35683	2693			15042								
		STD	0150	1167	3545	2702	0010862	0175	14994								
		OBS	0150	1167	35450	2702			14994								
		OBS	0155	1150	35433	2704			14988								
		OBS	0165	1177	35488	2703			15000								
		STD	0200	1097	3536	2708	0010420	0228	14976								
		OBS	0200	1097	35357	2708			14976								
		STD	0250	0976	3521	2717	0009579	0278	14939								
		OBS	0250	0976	35206	2717			14939								
		STD	0300	0567	3460	2730	0008198	0323	14782								
		OBS	0300	0567	34603	2730			14782								
		OBS	0350	0744	34983	2736			14865								
		STD	0400	0567	3482	2748	0006694	0397	14801								
		OBS	0400	0567	34823	2748			14801								
		OBS	0418	0616	34903	2748			14825								
		STD	0500	0547	3493	2759	0005745	0459	14811								
		OBS	0500	0547	34935	2759			14811								
		STD	0600	0492	3495	2767	0005044	0513	14805								
		OBS	0600	0492	34953	2767			14805								
		STD	0700	0467	3497	2771	0004699	0562	14812								
		OBS	0700	0467	34973	2771			14812								
		STD	0800	0462	3497	2772	0004745	0609	14826								
		OBS	0800	0462	34973	2772			14826								
		STD	0900	0428	3497	2776	0004433	0655	14829								
		OBS	0900	0428	34973	2776			14829								
		STD	1000	0416	3496	2776	0004459	0700	14840								
		OBS	1000	0416	34963	2776			14840								
		STD	1100	0398	3495	2777	0004401	0744	14849								
		OBS	1100	0398	34953	2777			14849								

REFERENCE CTRY CODE	REFERENCE ID. ND.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MD	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		Ev	4417 N	047315W		149	47	04	14	034	1968	001	10109	3840	1	06	1	4		X0	0	3		0070

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	00	S00	325	083	056	7	26	

MESSENGER TIME OF HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0818	3427	2670	0013550	0000	14827								
034		OBS	0000	0818	34273	2670			14827								
		STD	0010	0818	3430	2672	0013341	0013	14829								
		OBS	0010	0818	34303	2672			14829								
		STD	0020	0847	3446	2680	0012628	0026	14843								
002		OBS	0020	0847	34458	2680			14843								
		OBS	0025	0877	34558	2683			14857								
		STD	0030	0957	3479	2688	0011849	0038	14890								
		OBS	0030	0957	34793	2688			14890								
		STD	0050	1107	3514	2689	0011806	0062	14952								
		OBS	0050	1107	35143	2689			14952								
		STD	0075	1107	3515	2690	0011830	0091	14956								
		OBS	0075	1107	35148	2690			14956								
		STD	0100	1106	3514	2690	0011898	0121	14960								
		OBS	0100	1106	35145	2690			14960								
		OBS	0108	1049	35096	2696			14941								
		STD	0125	1118	3528	2698	0011149	0150	14970								
		OBS	0125	1118	35283	2698			14970								
		OBS	0140	1187	35458	2699			14999								
		STD	0150	1097	3531	2704	0010626	0177	14967								
		OBS	0150	1097	35313	2704			14967								
		OBS	0185	0762	34653	2708			14840								
		STD	0200	0942	3515	2719	0009305	0227	14917								
		OBS	0200	0942	35153	2719			14917								
		STD	0250	0747	3489	2728	0008406	0271	14848								
		OBS	0250	0747	34888	2728			14848								
		OBS	0255	0782	3596P	2807P											
		STD	0300	0436	3449	2737	0007493	0311	14726								
		OBS	0300	0436	34493	2737			14726								
		OBS	0350	0616	34873	2745			14813								
		STD	0400	0567	3486	2751	0006398	0380	14801								
		OBS	0400	0567	34863	2751			14801								
		STD	0500	0518	3495	2764	0005246	0439	14799								
		OBS	0500	0518	34953	2764			14799								
		STD	0600	0512	3500	2768	0004921	0489	14814								
		OBS	0600	0512	35003	2768			14814								
		STD	0700	0437	3492	2771	0004711	0538	14799								
		OBS	0700	0437	34923	2771			14799								
		STD	0800	0438	3498	2775	0004379	0583	14816								
		OBS	0800	0438	34983	2775			14816								
		STD	0900	0432	3498	2776	0004441	0627	14830								
		OBS	0900	0432	34978	2776			14830								
		STD	1000	0418	3497	2777	0004411	0671	14841								
		OBS	1000	0418	34973	2777			14841								
		STD	1100	0417	3497	2777	0004478	0716	14858								
		OBS	1100	0417	34975	2777			14858								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
318039		EV	44125N	047105W		149	47	04	14	051	1968	001	10110	4005	1	06	2	2		X0	0	3	0071

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARDMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	17	S03	315	083	061	7	30	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0567	3352	2645	0015903	0000	14718								
051		OBS	0000	0567	33523	2645			14718								
		STD	0010	1047	3499	2688	0011800	0013	14922								
		OBS	0010	1047	34993	2688			14922								
		STD	0020	1156	3525	2689	0011790	0025	14966								
002		OBS	0020	1156	35253	2689			14966								
		STD	0030	1156	3527	2690	0011716	0037	14968								
		OBS	0030	1156	35266	2690			14968								
		STD	0050	1187	3534	2690	0011760	0060	14983								
		OBS	0050	1187	35343	2690			14983								
		STD	0075	1157	3527	2690	0011783	0090	14976								
		OBS	0075	1157	35275	2690			14976								
		STD	0100	1152	3528	2692	0011699	0119	14978								
		OBS	0100	1152	35283	2692			14978								
		STD	0125	0957	3491	2697	0011181	0148	14908								
		OBS	0125	0957	34911	2697			14908								
		STD	0150	0857	3483	2708	0010246	0175	14873								
		OBS	0150	0857	34833	2708			14873								
		OBS	0160	0676	34479	2706			14800								
		OBS	0166	0747	34523	2708			14831								
		OBS	0175	0597	34479	2717			14771								
		OBS	0185	0667	34623	2719			14803								
		STD	0200	0607	3454	2720	0009015	0223	14780								
		OBS	0200	0607	34543	2720			14780								
		STD	0250	0805	3502	2730	0008249	0266	14872								
		OBS	0250	0805	35023	2730			14872								
		OBS	0280	0672	34813	2733			14823								
		OBS	0291	0716	34911	2735			14843								
		STD	0300	0687	3486	2735	0007867	0306	14833								
		OBS	0300	0687	34859	2735			14833								
		OBS	0325	0478	34623	2742			14750								
		OBS	0340	0572	34843	2749			14793								
		OBS	0350	0504	34741	2749			14766								
		STD	0400	0482	3484	2759	0005511	0373	14766								
		OBS	0400	0482	34843	2759			14766								
		OBS	0450	0529	34983	2765			14796								
		STD	0500	0507	3496	2766	0005036	0426	14795								
		OBS	0500	0507	34963	2766			14795								
		STD	0600	0487	3500	2771	0004608	0474	14804								
		OBS	0600	0487	35003	2771			14804								
		STD	0700	0457	3497	2772	0004575	0520	14808								
		OBS	0700	0457	34973	2772			14808								
		STD	0800	0442	3496	2773	0004564	0566	14818								
		OBS	0800	0442	34965	2773			14818								
		STD	0900	0427	3497	2776	0004430	0611	14828								
		OBS	0900	0427	34971	2776			14828								
		STD	1000	0416	3497	2777	0004423	0655	14840								
		OBS	1000	0416	34968	2777			14840								
		STD	1100	0407	3496	2777	0004443	0699	14853								
		OBS	1100	0407	34963	2777			14853								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
318039		EV	4312 N	05016 W		150	30	04	14	170	1968	001	10111	0060	1	06	2	2		X1	0	3	0072

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARDMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	08	S05	305	056	050	7	07	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0226	3297	2635	0016862	0000	14566								
170		OBS	0000	0226	32967	2635			14566								
		STD	0010	0211	3296	2636	0016792	0016	14561								
		OBS	0010	0211	32962	2636			14561								
		STD	0020	0187	3298	2639	0016513	0033	14552								
001		OBS	0020	0187	32977	2639			14552								
		OBS	0025	0186	33002	2641			14553								
		STD	0030	0186	3300	2641	0016316	0049	14554								
		OBS	0030	0186	33002	2641			14554								
		STD	0050	0184	3304	2644	0016003	0082	14557								
		OBS	0050	0184	33042	2644			14557								
		OBS	0055	0183	33042	2644			14557								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4304 N	050162W		150	30	04	14	177	1968	001	10112	0064	1	06	3	2		X1	0	3		0073

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	08	S07	298	056	050	7	08	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	Σ ΔD DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0194	3291	2633	0017070	0000	14551								
177		OBS	0000	0194	32909	2633			14551								
		STD	0010	0166	3288	2632	0017081	0017	14540								
		OBS	0010	0166	32883	2632			14540								
		STD	0020	0145	3292	2637	0016692	0034	14533								
001		OBS	0020	0145	32917	2637			14533								
		OBS	0025	0145	32925	2637			14534								
		STD	0030	0145	3293	2637	0016611	0050	14535								
		OBS	0030	0145	32927	2637			14535								
		OBS	0042	0145	32927	2637			14537								
		STD	0050	0088	3294	2642	0016188	0083	14513								
		OBS	0050	0088	32937	2642			14513								
		OBS	0058	0085	32970	2645			14513								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4254 N	050164W		150	20	04	14	187	1968	001	10113	0183	1	06	2	2		X1	0	3		0074

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	07	S06	291	056	050	7	15	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	Σ ΔD DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0121	3280	2629	0017451	0000	14517								
187		OBS	0000	0121	32797	2629			14517								
		OBS	0002	0083	32779	2629			14500								
		STD	0010	0079	3280	2631	0017205	0017	14500								
001		OBS	0010	0079	32797	2631			14500								
		STD	0020	0076	3280	2632	0017140	0034	14500								
		OBS	0020	0076	32804	2632			14500								
		OBS	0025	0076	32805	2632			14501								
		STD	0030	0073	3281	2632	0017093	0051	14501								
		OBS	0030	0073	32808	2632			14501								
		STD	0050	0073	3281	2632	0017091	0085	14504								
		OBS	0050	0073	32808	2632			14504								
		STD	0075	-0002	3283	2638	0016556	0127	14474								
		OBS	0075	-0002	32827	2638			14474								
		STD	0100	-0024	3311	2661	0014310	0166	14472								
		OBS	0100	-0024	33107	2661			14472								
		STD	0125	-0012	3333	2679	0012672	0200	14485								
		OBS	0125	-0012	33328	2679			14485								
		OBS	0135	-0003	33448	2688			14492								
		STD	0150	0213	3414	2729	0007962	0226	14601								
		OBS	0150	0213	34137	2729			14601								
		OBS	0166	0244	34297	2740			14620								
		OBS	0168	0294	34471	2749			14644								
		OBS	0175	0295	34472	2749			14646								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4244 N	050166W		150	20	04	14	200	1968	001	10114	1463	1	06	1	2		X1	0	3		0075

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	S0	08	S10	288	056	056	7	28	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	S.C.
		STD	0000	0118	3279	2629	0017460	0000	14516								
200		OBS	0000	0118	32794	2629			14516								
		STD	0010	0046	3277	2630	0017267	0017	14485								
		OBS	0010	0046	32767	2630			14485								
		STD	0020	-0006	3286	2641	0016303	0034	14464								
002		OBS	0020	-0006	32861	2641			14464								
		STD	0030	-0014	3289	2644	0016009	0050	14462								
		OBS	0030	-0014	32894	2644			14462								
		OBS	0041	-0045	33006	2654			14451								
		STD	0050	-0027	3317	2666	0013858	0080	14463								
		OBS	0050	-0027	33167	2666			14463								
		STD	0075	-0022	3330	2676	0012883	0113	14472								
		OBS	0075	-0022	33297	2676			14472								
		STD	0100	-0005	3349	2691	0011463	0144	14486								
		OBS	0100	-0005	33492	2691			14486								
		STD	0125	0093	3380	2711	0009687	0170	14539								
		OBS	0125	0093	33797	2711			14539								
		OBS	0132	0174	33962	2718			14579								
		OBS	0138	0124	33957	2721			14557								
		STD	0150	0158	3401	2723	0008534	0193	14575								
		OBS	0150	0158	34007	2723			14575								
		OBS	0155	0186	34037	2723			14589								
		OBS	0175	0148	34056	2728			14575								
		STD	0200	0216	3427	2739	0007039	0232	14613								
		OBS	0200	0216	34266	2739			14613								
		OBS	0218	0340	34454	2743			14672								
		OBS	0232	0239	34371	2746			14629								
		STD	0250	0251	3442	2749	0006176	0265	14638								
		OBS	0250	0251	34422	2749			14638								
		STD	0300	0299	3456	2756	0005576	0294	14669								
		OBS	0300	0299	34564	2756			14669								
		OBS	0340	0370	34717	2761			14708								
		STD	0400	0398	3481	2766	0004793	0346	14731								
		OBS	0400	0398	34813	2766			14731								
		STD	0500	0406	3485	2768	0004682	0393	14752								
		OBS	0500	0406	34852	2768			14752								
		STD	0600	0414	3490	2771	0004530	0439	14772								
		OBS	0600	0414	34897	2771			14772								
		STD	0700	0419	3492	2773	0004493	0485	14791								
		OBS	0700	0419	34923	2773			14791								
		STD	0800	0399	3492	2774	0004410	0529	14799								
		OBS	0800	0399	34916	2774			14799								
		STD	0900	0386	3491	2775	0004368	0573	14810								
		OBS	0900	0386	34913	2775			14810								
		STD	1000	0383	3492	2776	0004379	0617	14826								
		OBS	1000	0383	34919	2776			14826								
		STD	1100	0374	3492	2777	0004338	0660	14839								
		OBS	1100	0374	34922	2777			14839								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4233 N	05017 W		150	20	04	14	212	1968	001	10115	2542	1	06	1	2		X2	0	3		0076

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	08	S10	284	056	056	7	31	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCO
		STD	0000	0214	3296	2636	0016790	0000	14561								
212		OBS	0000	0214	32965	2636			14561								
		STD	0010	0225	3306	2642	0016177	0016	14569								
		OBS	0010	0225	33056	2642			14569								
		STD	0020	0218	3309	2645	0015899	0032	14568								
003		OBS	0020	0218	33087	2645			14568								
		OBS	0025	0244	33396	2668			14584								
		STD	0030	0274	3349	2672	0013311	0047	14599								
		OBS	0030	0274	33487	2672			14599								
		OBS	0040	0279	33535	2676			14604								
		STD	0050	0244	3379	2699	0010814	0071	14594								
		OBS	0050	0244	33787	2699			14594								
		OBS	0051	0219	33832	2704			14583								
		STD	0075	0356	3412	2715	0009303	0096	14650								
		OBS	0075	0356	34117	2715			14650								
		STD	0100	0333	3417	2722	0008694	0118	14645								
		OBS	0100	0333	34172	2722			14645								
		OBS	0110	0299	34192	2726			14633								
		STD	0125	0336	3431	2733	0007667	0139	14653								
		OBS	0125	0336	34315	2733			14653								
		STD	0150	0306	3433	2736	0007313	0158	14644								
		OBS	0150	0306	34327	2736			14644								
		OBS	0170	0356	34447	2741			14670								
		OBS	0190	0338	34507	2748			14667								
		STD	0200	0361	3456	2750	0006124	0191	14679								
		OBS	0200	0361	34560	2750			14679								
		STD	0250	0446	3477	2758	0005445	0220	14726								
		OBS	0250	0446	34775	2758			14726								
		STD	0300	0493	3490	2762	0005127	0247	14755								
		OBS	0300	0493	34897	2762			14755								
		OBS	0350	0513	34961	2765			14773								
		STD	0400	0500	3498	2768	0004730	0296	14776								
		OBS	0400	0500	34977	2768			14776								
		STD	0500	0459	3497	2772	0004442	0342	14775								
		OBS	0500	0459	34966	2772			14775								
		STD	0600	0423	3495	2774	0004249	0385	14777								
		OBS	0600	0423	34949	2774			14777								
		STD	0700	0412	3496	2776	0004143	0427	14789								
		OBS	0700	0412	34960	2776			14789								
		STD	0800	0386	3494	2777	0004109	0468	14794								
		OBS	0800	0386	34936	2777			14794								
		STD	0900	0375	3493	2778	0004131	0510	14806								
		OBS	0900	0375	34928	2778			14806								
		STD	1000	0363	3493	2779	0004092	0551	14818								
		OBS	1000	0363	34926	2779			14818								
		STD	1100	0360	3493	2779	0004132	0592	14833								
		OBS	1100	0360	34927	2779			14833								
		STD	1200	0360	3493	2779	0004180	0633	14850								
		OBS	1200	0360	34932	2779			14850								
		STD	1300	0368	3496	2781	0004146	0675	14870								
		OBS	1300	0368	34961	2781			14870								
		STD	1400	0362	3495	2781	0004218	0717	14884								
		OBS	1400	0362	34952	2781			14884								
		STD	1500	0357	3495	2781	0004238	0759	14899								
		OBS	1500	0357	34952	2781			14899								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NDOC STATION NUMBER
318039		EV	4213 N	05017 W		150	20	04	14	235	1968	001	10116	3246	1	09	1	4		X2	0	3		0077

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	09	S10	274	056	044	6	29	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔO OYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCD
		STD	0000	0219	3294	2633	0017034	0000	14563								
235		OBS	0000	0219	32937	2633			14563								
		STD	0010	0026	3278	2632	0017077	0017	14476								
		OBS	0010	0026	32779	2632			14476								
		STD	0020	-0015	3309	2659	0014538	0032	14463								
002		OBS	0020	-0015	33087	2659			14463								
		OBS	0025	0006	33287	2674			14476								
		STD	0030	0008	3334	2678	0012728	0046	14478								
		OBS	0030	0008	33337	2678			14478								
		OBS	0033	0006	33397	2683			14479								
		OBS	0040	0008	33487	2690			14482								
		STD	0050	0106	3378	2708	0009910	0069	14532								
		OBS	0050	0106	33777	2708			14532								
		STD	0075	0386	3424	2722	0008695	0092	14665								
		OBS	0075	0386	34237	2722			14665								
		STD	0100	0576	3458	2727	0008212	0113	14752								
		OBS	0100	0576	34582	2727			14752								
		OBS	0112	0641	34702	2729			14782								
		STD	0125	0566	3461	2731	0007935	0133	14752								
		OBS	0125	0566	34607	2731			14752								
		STD	0150	0306	3425	2730	0007881	0153	14643								
		OBS	0150	0306	34252	2730			14643								
		OBS	0160	0289	34327	2738			14639								
		STD	0200	0451	3464	2746	0006483	0189	14718								
		OBS	0200	0451	34637	2746			14718								
		STD	0250	0576	3484	2748	0006502	0221	14780								
		OBS	0250	0576	34837	2748			14780								
		STD	0300	0514	3483	2754	0005888	0252	14763								
		OBS	0300	0514	34827	2754			14763								
		OBS	0318	0555	34907	2756			14784								
		OBS	0335	0451	34787	2758			14742								
		STD	0400	0486	3492	2765	0005004	0307	14769								
		OBS	0400	0486	34917	2765			14769								
		OBS	0420	0472	34912	2766			14767								
		OBS	0435	0511	35037	2771			14787								
		STD	0500	0485	3504	2775	0004195	0353	14787								
		OBS	0500	0407P	3504	2783P											
		STD	0600	0460	3499	2773	0004400	0396	14792								
		OBS	0600	0460	34987	2773			14792								
		STD	0700	0455	3500	2775	0004376	0440	14807								
		OBS	0700	0455	34997	2775			14807								
		STD	0800	0444	3501	2777	0004274	0483	14819								
		OBS	0800	0444	35007	2777			14819								
		STD	0900	0428	3500	2778	0004220	0525	14829								
		OBS	0900	0428	35002	2778			14829								
		STD	1000	0415	3499	2779	0004226	0568	14840								
		OBS	1000	0415	34992	2779			14840								
		STD	1100	0396	3498	2780	0004166	0610	14849								
		OBS	1100	0396	34982	2780			14849								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIST INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4152 N	050172W		150	10	04	15	020	1968	001	10117	3695	1	09	2	3		X2	0	3		0078

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	09	S10	268	078	078	7	34	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ ΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCO
		STD	0000	0436	3316	2631	0017242	0000	14659								
020		OBS	0000	0436	33157	2631			14659								
		STD	0010	0436	3316	2631	0017251	0017	14661								
		OBS	0010	0436	33157	2631			14661								
		STD	0020	0406	3313	2632	0017131	0034	14649								
003		OBS	0020	0406	33135	2632			14649								
		OBS	0025	0386	33039	2626			14640								
		STD	0030	0276	3316	2646	0015816	0050	14596								
		OBS	0030	0276	33157	2646			14596								
		STD	0050	0166	3356	2686	0011969	0078	14556								
		OBS	0050	0166	33557	2686			14556								
		OBS	0060	0147	33687	2698			14551								
		STD	0075	0251	3401	2716	0009219	0105	14604								
		OBS	0075	0251	34006	2716			14604								
		STD	0100	0435	3438	2728	0008160	0126	14691								
		OBS	0100	0435	34377	2728			14691								
		OBS	0111	0356	34347	2733			14659								
		STD	0125	0407	3445	2736	0007355	0146	14685								
		OBS	0125	0407	34449	2736			14685								
		OBS	0130	0381	34452	2739			14675								
		OBS	0140	0425	34517	2740			14696								
		STD	0150	0366	3446	2741	0006904	0164	14672								
		OBS	0150	0366	34457	2741			14672								
		OBS	0155	0322	34427	2743			14653								
		STD	0200	0456	3465	2747	0006459	0197	14720								
		OBS	0200	0456	34647	2747			14720								
		OBS	0205	0421	34607	2747			14706								
		OBS	0238	0568	34987	2760			14777								
		STD	0250	0529	3495	2762	0005117	0226	14762								
		OBS	0250	0529	34947	2762			14762								
		OBS	0270	0567	35012	2762			14782								
		STD	0300	0541	3499	2764	0005027	0251	14776								
		OBS	0300	0541	34987	2764			14776								
		OBS	0302	0496	34927	2764			14757								
		OBS	0310	0525	34987	2766			14771								
		OBS	0312	0496	34945	2766			14759								
		OBS	0350	0514	34987	2767			14773								
		STD	0400	0489	3500	2771	0004451	0299	14771								
		OBS	0400	0489	34997	2771			14771								
		STD	0500	0467	3501	2774	0004228	0342	14779								
		OBS	0500	0467	35007	2774			14779								
		STD	0600	0455	3502	2776	0004116	0384	14791								
		OBS	0600	0455	35017	2776			14791								
		STD	0700	0437	3501	2778	0004051	0425	14800								
		OBS	0700	0437	35012	2778			14800								
		STD	0800	0397	3497	2778	0004006	0465	14799								
		OBS	0800	0397	34967	2778			14799								
		STD	0900	0389	3497	2780	0003966	0505	14812								
		OBS	0900	0389	34972	2780			14812								
		STD	1000	0376	3496	2780	0003982	0545	14823								
		OBS	1000	0376	34962	2780			14823								
		STD	1100	0375	3497	2781	0004013	0585	14840								
		OBS	1100	0375	34967	2781			14840								
		STD	1200	0363	3496	2782	0003968	0624	14851								
		OBS	1200	0363	34965	2782			14851								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDC'R	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4836 N	04610 W		149	86	04	16	173	1968	001	10118	2012	1	05	1	2		X1	0	3		0079

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	50	05	S08	261	050	044	7	28	

MESSENGR TIME OF HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	S CD
		STD	0000	0051	3348	2688	0011840	0000	14495								
173		OBS	0000	0051	33482	2688			14495								
		OBS	0001	-0051	33437	2689			14448								
		STD	0010	-0032	3348	2692	0011448	0011	14459								
003		OBS	0010	-0032	33482	2692			14459								
		STD	0020	-0023	3349	2692	0011382	0023	14465								
		OBS	0020	-0023	33495	2692			14465								
		OBS	0025	-0021	33498	2693			14467								
		STD	0030	-0026	3349	2693	0011370	0034	14465								
		OBS	0030	-0026	33494	2693			14465								
		OBS	0038	-0066	33652	2707			14450								
		STD	0050	0060	3401	2729	0007890	0053	14515								
		OBS	0050	0060	34007	2729			14515								
		STD	0075	0230	3449	2756	0005381	0070	14601								
		OBS	0075	0230	34492	2756			14601								
		STD	0100	0285	3460	2760	0005029	0083	14631								
		OBS	0100	0285	34602	2760			14631								
		STD	0125	0336	3474	2766	0004495	0095	14659								
		OBS	0125	0336	34737	2766			14659								
		STD	0150	0396	3483	2768	0004393	0106	14689								
		OBS	0150	0396	34832	2768			14689								
		STD	0200	0439	3491	2770	0004282	0128	14717								
		OBS	0200	0439	34914	2770			14717								
		STD	0250	0442	3494	2771	0004175	0149	14727								
		OBS	0250	0442	34939	2771			14727								
		STD	0300	0436	3494	2772	0004134	0169	14732								
		OBS	0300	0436	34943	2772			14732								
		OBS	0350	0414	34922	2773			14731								
		STD	0400	0418	3493	2773	0004123	0211	14741								
		OBS	0400	0418	34932	2773			14741								
		STD	0500	0386	3492	2776	0003987	0251	14744								
		OBS	0500	0386	34916	2776			14744								
		STD	0600	0380	3492	2777	0003954	0291	14758								
		OBS	0600	0380	34923	2777			14758								
		STD	0700	0369	3492	2778	0003927	0330	14770								
		OBS	0700	0369	34923	2778			14770								
		STD	0800	0359	3492	2779	0003887	0369	14783								
		OBS	0800	0359	34924	2779			14783								
		STD	0900	0354	3493	2780	0003899	0408	14797								
		OBS	0900	0354	34927	2780			14797								
		STD	1000	0349	3493	2780	0003907	0447	14812								
		OBS	1000	0349	34929	2780			14812								
		STD	1100	0346	3494	2781	0003900	0486	14827								
		OBS	1100	0346	34936	2781			14827								
		STD	1200	0344	3494	2782	0003886	0525	14843								
		OBS	1200	0344	34945	2782			14843								
		STD	1300	0337	3495	2783	0003863	0564	14857								
		OBS	1300	0337	34947	2783			14857								
		STD	1400	0333	3495	2784	0003856	0603	14872								
		OBS	1400	0333	34952	2784			14872								
		STD	1500	0326	3496	2785	0003819	0641	14886								
		OBS	1500	0326	34956	2785			14886								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	48215N	04612 W		149	86	04	16	194	1968	001	10119	1079	1	03	1	2		X1	0	3		0080

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	06	S07	261	050	044	7	23	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0021	3331	2675	0013025	0000	14479								
194		OBS	0000	0021	33307	2675			14479								
		OBS	0001	-0084	33267	2677			14430								
		STD	0010	-0091	3329	2679	0012685	0012	14429								
002		OBS	0010	-0091	33291	2679			14429								
		STD	0020	-0054	3337	2684	0012194	0025	14449								
		OBS	0020	-0054	33372	2684			14449								
		OBS	0021	-0127	33397	2688			14415								
		OBS	0025	-0104	33464	2693			14428								
		STD	0030	-0120	3359	2704	0010313	0036	14423								
		OBS	0030	-0120	33587	2704			14423								
		OBS	0037	0026	33807	2715			14494								
		STD	0050	0061	3393	2723	0008504	0055	14514								
		OBS	0050	0061	33927	2723			14514								
		STD	0075	0115	3413	2736	0007315	0075	14545								
		OBS	0075	0115	34127	2736			14545								
		STD	0100	0188	3435	2748	0006122	0091	14585								
		OBS	0100	0188	34353	2748			14585								
		STD	0125	0239	3443	2750	0005968	0107	14612								
		OBS	0125	0239	34427	2750			14612								
		STD	0150	0262	3452	2756	0005504	0121	14628								
		OBS	0150	0262	34517	2756			14628								
		STD	0200	0407	3482	2766	0004608	0146	14702								
		OBS	0200	0407	34825	2766			14702								
		OBS	0210	0429	34879	2768			14714								
		STD	0250	0440	3490	2768	0004470	0169	14725								
		OBS	0250	0440	34897	2768			14725								
		STD	0300	0442	3491	2769	0004471	0191	14734								
		OBS	0300	0442	34907	2769			14734								
		STD	0400	0439	3492	2770	0004430	0236	14750								
		OBS	0400	0439	34922	2770			14750								
		STD	0500	0437	3494	2772	0004353	0280	14766								
		OBS	0500	0437	34943	2772			14766								
		STD	0600	0413	3493	2774	0004297	0323	14772								
		OBS	0600	0413	34927	2774			14772								
		STD	0700	0404	3493	2775	0004236	0366	14785								
		OBS	0700	0404	34934	2775			14785								
		STD	0800	0389	3493	2776	0004213	0408	14795								
		OBS	0800	0389	34927	2776			14795								
		STD	0900	0375	3492	2777	0004158	0450	14806								
		OBS	0900	0375	34924	2777			14806								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	DAY	HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	HGT	PER	SEA	WEATHER CODE	CLOUD CODES TYPE	AMT		NODC STATION NUMBER
318039		EV	48025N	04613 W		149	86	04	16	215	1968	001	10120	1189	1	03	1	2		X1	0	3		0081

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	05	S08	261	022	017	7	25	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ△D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	CODE
		STD	0000	0005	3332	2677	0012871	0000	14472								
215		OBS	0000	0005	33317	2677			14472								
		STD	0010	-0059	3334	2681	0012433	0012	14444								
		OBS	0010	-0059	33339	2681			14444								
002		OBS	0012	-0068	33417	2688			14442								
		STD	0020	-0058	3349	2693	0011299	0024	14448								
		OBS	0020	-0058	33487	2693			14448								
		OBS	0025	-0042	33567	2699			14458								
		STD	0030	-0036	3360	2701	0010546	0035	14462								
		OBS	0030	-0036	33597	2701			14462								
		STD	0050	-0050	3397	2732	0007648	0053	14464								
		OBS	0050	-0050	33967	2732			14464								
		STD	0075	0115	3413	2736	0007315	0072	14545								
		OBS	0075	0115	34127	2736			14545								
		STD	0100	0157	3428	2745	0006456	0089	14570								
		OBS	0100	0157	34279	2745			14570								
		STD	0125	0216	3439	2749	0006050	0105	14602								
		OBS	0125	0216	34392	2749			14602								
		STD	0150	0248	3453	2758	0005246	0119	14622								
		OBS	0150	0248	34535	2758			14622								
		STD	0200	0271	3460	2761	0005007	0144	14641								
		OBS	0200	0271	34597	2761			14641								
		OBS	0245	0399	34804	2765			14706								
		STD	0250	0396	3480	2765	0004713	0169	14705								
		OBS	0250	0396	34801	2765			14705								
		OBS	0259	0382	34805	2767			14701								
		OBS	0280	0443	34905	2769			14731								
		STD	0300	0445	3491	2769	0004464	0192	14736								
		OBS	0300	0445	34912	2769			14736								
		STD	0400	0429	3491	2770	0004411	0236	14745								
		OBS	0400	0429	34909	2770			14745								
		STD	0500	0414	3495	2775	0004075	0279	14756								
		OBS	0500	0414	34946	2775			14756								
		STD	0600	0393	3491	2775	0004178	0320	14764								
		OBS	0600	0393	34913	2775			14764								
		STD	0700	0369	3490	2776	0004114	0361	14770								
		OBS	0700	0369	34897	2776			14770								
		STD	0800	0364	3491	2777	0004075	0402	14784								
		OBS	0800	0364	34907	2777			14784								
		STD	0900	0358	3491	2778	0004067	0443	14799								
		OBS	0900	0358	34910	2778			14799								
		STD	1000	0355	3492	2779	0004019	0483	14814								
		OBS	1000	0355	34923	2779			14814								
		OBS	1050	0351	34923	2780			14821								

REFERENCE TRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DUPL INDICA	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47435N	046148W		149	76	04	16	234	1968	001	10121	1097	1	03	2	2		X1	0	3		0082

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	03	S08	261	022	017	7	25	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	NODC
		STD	0000	0095	3335	2674	0013115	0000	14513								
234		OBS	0000	0095	33346	2674			14513								
		STD	0010	-0009	3336	2681	0012498	0012	14468								
		OBS	0010	-0009	33357	2681			14468								
		STD	0020	-0014	3339	2683	0012250	0025	14467								
002		OBS	0020	-0014	33387	2683			14467								
		OBS	0025	-0023	33417	2686			14464								
		STD	0030	-0023	3343	2687	0011894	0037	14465								
		OBS	0030	-0023	33427	2687			14465								
		OBS	0036	0042	33547	2693			14498								
		OBS	0040	0007	33587	2698			14483								
		STD	0050	0024	3379	2714	0009366	0058	14495								
		OBS	0050	0024	33787	2714			14495								
		OBS	0065	0311	34087	2717			14629								
		OBS	0071	0188	34187	2735			14578								
		STD	0075	0211	3422	2736	0007271	0079	14589								
		OBS	0075	0211	34222	2736			14589								
		OBS	0095	0269	34337	2741			14619								
		STD	0100	0222	3439	2749	0006122	0096	14600								
		OBS	0100	0222	34387	2749			14600								
		STD	0125	0307	3453	2752	0005801	0111	14643								
		OBS	0125	0307	34527	2752			14643								
		STD	0150	0386	3479	2765	0004623	0124	14685								
		OBS	0150	0386	34787	2765			14685								
		STD	0200	0435	3486	2766	0004658	0147	14714								
		OBS	0200	0435	34857	2766			14714								
		STD	0250	0446	3491	2768	0004456	0170	14728								
		OBS	0250	0446	34907	2768			14728								
		STD	0300	0446	3492	2770	0004402	0192	14736								
		OBS	0300	0446	34922	2770			14736								
		STD	0400	0436	3494	2772	0004284	0235	14749								
		OBS	0400	0436	34937	2772			14749								
		STD	0500	0419	3493	2773	0004233	0278	14758								
		OBS	0500	0419	34932	2773			14758								
		STD	0600	0396	3492	2775	0004183	0320	14765								
		OBS	0600	0396	34917	2775			14765								
		STD	0700	0381	3492	2776	0004108	0361	14775								
		OBS	0700	0381	34917	2776			14775								
		STD	0800	0372	3492	2777	0004091	0402	14788								
		OBS	0800	0372	34917	2777			14788								
		STD	0900	0366	3492	2778	0004067	0443	14802								
		OBS	0900	0366	34922	2778			14802								
		STD	1000	0358	3493	2779	0004026	0483	14816								
		OBS	1000	0358	34927	2779			14816								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47235N	046165W		149	76	04	17	015	1968	001	10122	0540	1	06	2	4		X0	0	3		0083

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	05	S08	257	050	044	7	21	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ ΔD DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH
		STD	0000	0401	3349	2661	0014418	0000	14649							
015		OBS	0000	0401	33487	2661			14649							
		STD	0010	0401	3349	2661	0014426	0014	14650							
		OBS	0010	0401	33487	2661			14650							
002		OBS	0019	0400	33477	2660			14651							
		STD	0020	0391	3349	2662	0014334	0028	14648							
		OBS	0020	0391	33487	2662			14648							
		OBS	0025	0387	33502	2663			14647							
		STD	0030	0376	3353	2666	0013906	0042	14644							
		OBS	0030	0376	33527	2666			14644							
		OBS	0040	0371	33682	2679			14645							
		STD	0050	0396	3395	2698	0010951	0067	14661							
		OBS	0050	0396	33947	2698			14661							
		OBS	0060	0406	33997	2700			14667							
		STD	0075	0377	3419	2719	0008982	0092	14660							
		OBS	0075	0377	34187	2719			14660							
		STD	0100	0465	3454	2737	0007274	0113	14706							
		OBS	0100	0465	34537	2737			14706							
		OBS	0120	0444	34587	2743			14701							
		STD	0125	0456	3464	2746	0006460	0130	14708							
		OBS	0125	0456	34637	2746			14708							
		OBS	0130	0466	34652	2746			14713							
		OBS	0135	0445	34677	2750			14705							
		STD	0150	0466	3473	2752	0005914	0145	14717							
		OBS	0150	0466	34727	2752			14717							
		STD	0200	0512	3491	2761	0005154	0173	14747							
		OBS	0200	0512	34907	2761			14747							
		STD	0250	0515	3494	2763	0005019	0198	14757							
		OBS	0250	0515	34937	2763			14757							
		STD	0300	0467	3492	2767	0004677	0223	14745							
		OBS	0300	0467	34917	2767			14745							
		STD	0400	0435	3492	2770	0004417	0268	14748							
		OBS	0400	0435	34917	2770			14748							
		STD	0500	0422	3494	2773	0004227	0311	14759							
		OBS	0500	0422	34937	2773			14759							

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47035N	04618 W		149	76	04	17	036	1968	001	10123	0320	1	06	2	4		X1	0	3		0084

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	06	S08	251	056	050	7	18	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ ΔD DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH
		STD	0000	0433	3351	2659	0014581	0000	14662							
036		OBS	0000	0433	33507	2659			14662							
		STD	0010	0434	3351	2659	0014599	0014	14664							
		OBS	0010	0434	33507	2659			14664							
001		OBS	0013	0467	33512	2656			14679							
		STD	0020	0406	3360	2669	0013656	0028	14656							
		OBS	0020	0406	33597	2669			14656							
		OBS	0025	0276	33472	2671			14599							
		STD	0030	0217	3372	2696	0011083	0041	14578							
		OBS	0030	0217	33722	2696			14578							
		STD	0050	0401	3412	2711	0009723	0061	14665							
		OBS	0050	0401	34117	2711			14665							
		OBS	0060	0371	34187	2719			14655							
		STD	0075	0456	3444	2730	0007904	0083	14697							
		OBS	0075	0456	34437	2730			14697							
		STD	0100	0367	3434	2731	0007773	0103	14662							
		OBS	0100	0367	34337	2731			14662							
		STD	0125	0431	3464	2749	0006191	0121	14697							
		OBS	0125	0431	34637	2749			14697							
		OBS	0147	0555	34872	2753			14755							
		STD	0150	0541	3486	2753	0005806	0136	14750							
		OBS	0150	0541	34857	2753			14750							
		OBS	0160	0515	34837	2755			14740							
		OBS	0175	0536	34887	2756			14752							
		STD	0200	0506	3486	2758	0005421	0164	14744							
		OBS	0200	0506	34862	2758			14744							
		OBS	0225	0547	34922	2758			14765							
		STD	0250	0515	3490	2760	0005261	0190	14756							
		OBS	0250	0515	34905	2760			14756							

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47038N	046362W		149	76	04	17	048	1968	001	10124	0640	1	03	1	2		X0	0	3		0085

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	06	S09	251	056	050	7	25	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	NODC
		STD	0000	0367	3343	2659	0014554	0000	14633								
048		OBS	0000	0367	33426	2659			14633								
		STD	0010	0367	3343	2659	0014561	0014	14635								
		OBS	0010	0367	33426	2659			14635								
		STD	0020	0246	3357	2681	0012473	0028	14586								
001		OBS	0020	0246	33567	2681			14586								
		OBS	0025	0261	33592	2682			14594								
		STD	0030	0247	3359	2683	0012332	0040	14589								
		OBS	0030	0247	33587	2683			14589								
		OBS	0046	0201	33647	2691			14572								
		STD	0050	0166	3399	2721	0008717	0061	14562								
		OBS	0050	0166	33987	2721			14562								
		OBS	0057	0356	34217	2723			14649								
		OBS	0062	0290	34287	2735			14622								
		STD	0075	0411	3450	2740	0006985	0081	14679								
		OBS	0075	0411	34497	2740			14679								
		STD	0100	0431	3462	2747	0006319	0097	14693								
		OBS	0100	0431	34617	2747			14693								
		STD	0125	0485	3475	2751	0005955	0113	14721								
		OBS	0125	0485	34746	2751			14721								
		STD	0150	0459	3477	2756	0005542	0127	14715								
		OBS	0150	0459	34767	2756			14715								
		OBS	0180	0448	34837	2763			14716								
		STD	0200	0465	3488	2764	0004843	0153	14727								
		OBS	0200	0465	34877	2764			14727								
		OBS	0222	0510	34949	2764			14750								
		OBS	0228	0486	34927	2765			14741								
		OBS	0235	0504	34947	2765			14750								
		STD	0250	0466	3490	2766	0004702	0177	14736								
		OBS	0250	0466	34905	2766			14736								
		OBS	0260	0459	34896	2766			14735								
		OBS	0270	0488	34957	2768			14749								
		STD	0300	0481	3496	2768	0004535	0200	14751								
		OBS	0300	0481	34957	2768			14751								
		STD	0400	0455	3497	2772	0004275	0244	14757								
		OBS	0400	0455	34967	2772			14757								
		STD	0500	0421	3495	2774	0004146	0286	14759								
		OBS	0500	0421	34946	2774			14759								
		OBS	0575	0421	34947	2774			14772								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4704 N	04650 W		149	76	04	17	059	1968	001	10125	1189	1	09	2	2		X0	0	3		0086

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	09	S08	251	061	050	7	21	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	S CD
		STD	0000	0245	3343	2670	0013523	0000	14581								
059		OBS	0000	0245	33426	2670			14581								
		STD	0010	0181	3347	2678	0012747	0013	14555								
		OBS	0010	0181	33467	2678			14555								
		STD	0020	0166	3354	2685	0012116	0025	14551								
003		OBS	0020	0166	33537	2685			14551								
		OBS	0025	0148	33657	2696			14545								
		STD	0030	0146	3373	2701	0010544	0036	14546								
		OBS	0030	0146	33727	2701			14546								
		STD	0050	0171	3398	2720	0008826	0056	14564								
		OBS	0050	0171	33977	2720			14564								
		STD	0075	0251	3429	2738	0007099	0076	14608								
		OBS	0075	0251	34287	2738			14608								
		STD	0100	0341	3452	2748	0006170	0092	14654								
		OBS	0100	0341	34517	2748			14654								
		STD	0125	0389	3466	2755	0005610	0107	14680								
		OBS	0125	0389	34657	2755			14680								
		STD	0150	0455	3485	2763	0004901	0120	14714								
		OBS	0150	0455	34847	2763			14714								
		OBS	0190	0472	34889	2764			14728								
		STD	0200	0445	3487	2766	0004645	0144	14719								
		OBS	0200	0445	34874	2766			14719								
		STD	0250	0437	3491	2769	0004361	0167	14724								
		OBS	0250	0437	34907	2769			14724								
		STD	0300	0426	3491	2771	0004297	0188	14728								
		OBS	0300	0426	34906	2771			14728								
		STD	0400	0406	3491	2773	0004174	0231	14736								
		OBS	0400	0406	34907	2773			14736								
		STD	0500	0396	3492	2775	0004053	0272	14748								
		OBS	0500	0396	34922	2775			14748								
		STD	0600	0382	3492	2776	0004028	0312	14759								
		OBS	0600	0382	34917	2776			14759								
		STD	0700	0368	3491	2777	0004032	0352	14769								
		OBS	0700	0368	34907	2777			14769								
		STD	0800	0364	3491	2777	0004057	0393	14784								
		OBS	0800	0364	34909	2777			14784								
		STD	0900	0356	3491	2778	0004027	0433	14798								
		OBS	0900	0356	34912	2778			14798								
		STD	1000	0352	3492	2779	0004029	0474	14813								
		OBS	1000	0352	34917	2779			14813								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	SHIP INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47041N	047041W		149	77	04	17	073	1968	001	10126	1097	1	08	2	2		X0	0	3		0087

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	08	S07	251	061	050	7	21	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0024	3327	2672	0013351	0000	14480								
073		OBS	0000	0024	33266	2672			14480								
		STD	0010	-0039	3324	2672	0013293	0013	14452								
		OBS	0010	-0039	33237	2672			14452								
		STD	0020	-0089	3333	2682	0012409	0026	14432								
002		OBS	0020	-0089	33327	2682			14432								
		OBS	0025	-0092	33337	2682			14431								
		STD	0030	-0094	3336	2684	0012168	0038	14432								
		OBS	0030	-0094	33356	2684			14432								
		OBS	0040	-0104	33457	2693			14430								
		STD	0050	-0049	3354	2697	0010945	0061	14458								
		OBS	0050	-0049	33537	2697			14458								
		STD	0075	0051	3388	2719	0008827	0086	14513								
		OBS	0075	0051	33877	2719			14513								
		STD	0100	0166	3429	2745	0006458	0105	14574								
		OBS	0100	0166	34287	2745			14574								
		STD	0125	0266	3450	2754	0005670	0120	14625								
		OBS	0125	0266	34497	2754			14625								
		STD	0150	0336	3468	2762	0004965	0133	14662								
		OBS	0150	0336	34677	2762			14662								
		STD	0200	0426	3484	2765	0004716	0158	14710								
		OBS	0200	0426	34837	2765			14710								
		STD	0250	0446	3491	2768	0004456	0181	14728								
		OBS	0250	0446	34907	2768			14728								
		STD	0300	0440	3492	2770	0004370	0203	14734								
		OBS	0300	0440	34917	2770			14734								
		STD	0400	0427	3493	2772	0004257	0246	14745								
		OBS	0400	0427	34927	2772			14745								
		STD	0500	0410	3493	2774	0004168	0288	14754								
		OBS	0500	0410	34927	2774			14754								
		STD	0600	0391	3493	2776	0004059	0329	14763								
		OBS	0600	0391	34926	2776			14763								
		STD	0700	0375	3491	2776	0004071	0370	14773								
		OBS	0700	0375	34912	2776			14773								
		STD	0800	0364	3491	2777	0004040	0410	14784								
		OBS	0800	0364	34912	2777			14784								
		STD	0900	0358	3491	2778	0004049	0451	14799								
		OBS	0900	0358	34912	2778			14799								
		STD	1000	0354	3492	2779	0004052	0491	14814								
		OBS	1000	0354	34917	2779			14814								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47041N	047195W		149	77	04	17	087	1968	001	10127	0366	1	08	2	2		X1	0	3		0088

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	08	S05	237	039	033	7	18	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SYC
		STD	0000	-0004	3299	2651	0015359	0000	14463								
087		OBS	0000	-0004	32986	2651			14463								
		OBS	0006	-0004	32986	2651			14464								
		STD	0010	-0043	3304	2656	0014803	0015	14447								
001		OBS	0010	-0043	33037	2656			14447								
		STD	0020	-0104	3306	2661	0014370	0029	14421								
		OBS	0020	-0104	33065	2661			14421								
		OBS	0025	-0129	33102	2665			14411								
		STD	0030	-0128	3311	2665	0013937	0043	14412								
		OBS	0030	-0128	33112	2665			14412								
		OBS	0037	-0133	33147	2668			14411								
		STD	0050	-0121	3328	2679	0012642	0070	14421								
		OBS	0050	-0121	33282	2679			14421								
		STD	0075	-0104	3338	2686	0011935	0101	14435								
		OBS	0075	-0104	33379	2686			14435								
		STO	0100	-0021	3364	2704	0010258	0128	14481								
		OBS	0100	-0021	33641	2704			14481								
		STD	0125	0048	3388	2720	0008761	0152	14520								
		OBS	0125	0048	33883	2720			14520								
		STD	0150	0133	3410	2732	0007686	0173	14565								
		OBS	0150	0133	34096	2732			14565								
		OBS	0170	0127	34147	2736			14567								
		STD	0200	0229	3440	2749	0006155	0207	14620								
		OBS	0200	0229	34397	2749			14620								
		OBS	0234	0264	34496	2754			14642								
		STO	0250	0307	3463	2760	0005143	0236	14665								
		OBS	0250	0307	34627	2760			14665								
		OBS	0258	0353	34691	2761			14687								
		STD	0300	0373	3473	2762	0005021	0261	14703								
		OBS	0300	0373	34735	2762			14703								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47043N	047355W		149	77	04	17	098	1968	001	10128	0220	1	08	2	2		X1	0	3		0089

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	08	S10	240	044	039	7	11	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SYC
		STD	0000	-0051	3277	2635	0016844	0000	14438								
098		OBS	0000	-0051	32767	2635			14438								
		STD	0010	-0052	3277	2635	0016839	0016	14440								
		OBS	0010	-0052	32767	2635			14440								
		STD	0020	-0060	3277	2635	0016807	0033	14437								
001		OBS	0020	-0060	32766	2635			14437								
		OBS	0025	-0080	32765	2636			14429								
		STD	0030	-0103	3277	2637	0016653	0050	14419								
		OBS	0030	-0103	32767	2637			14419								
		STO	0050	-0108	3285	2643	0016015	0083	14421								
		OBS	0050	-0108	32847	2643			14421								
		STD	0075	-0125	3291	2649	0015481	0122	14418								
		OBS	0075	-0125	32907	2649			14418								
		STD	0100	-0108	3309	2663	0014141	0159	14433								
		OBS	0100	-0108	33087	2663			14433								
		STD	0125	-0014	3327	2674	0013095	0193	14483								
		OBS	0125	-0014	33272	2674			14483								
		STD	0150	0011	3351	2692	0011403	0224	14502								
		OBS	0150	0011	33509	2692			14502								
		OBS	0175	0091	33827	2713			14547								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47045N	047465W		149	77	04	17	106	1968	001	10129	0183	1	08	2	2		X1	0	3		0090

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	08	S10	230	050	044	7	10	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	-0002	3275	2632	0017152	0000	14461								
106		OBS	0000	-0002	32753	2632			14461								
		STD	0010	-0052	3278	2636	0016749	0017	14440								
		OBS	0010	-0052	32779	2636			14440								
		STD	0020	-0064	3279	2638	0016580	0033	14436								
001		OBS	0020	-0064	32794	2638			14436								
		STD	0030	-0086	3285	2643	0016093	0050	14428								
		OBS	0030	-0086	32847	2643			14428								
		STD	0050	-0111	3303	2658	0014623	0080	14422								
		OBS	0050	-0111	33027	2658			14422								
		STD	0075	-0097	3317	2669	0013580	0115	14435								
		OBS	0075	-0097	33167	2669			14435								
		OBS	0085	-0004	33257	2672			14481								
		STD	0100	0004	3334	2678	0012693	0148	14488								
		OBS	0100	0004	33337	2678			14488								
		STD	0125	0028	3348	2689	0011703	0179	14505								
		OBS	0125	0028	33482	2689			14505								
		STD	0150	0048	3358	2695	0011085	0207	14520								
		OBS	0150	0048	33577	2695			14520								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47048N	047595W		149	77	04	17	115	1968	001	10130	0155	1	06	2	4		X1	0	3		0091

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	08	S10	234	050	044	7	10	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0027	3275	2630	0017288	0000	14474								
115		OBS	0000	0027	32752	2630			14474								
		STD	0010	0025	3275	2630	0017276	0017	14475								
		OBS	0010	0025	32752	2630			14475								
		STD	0020	0024	3275	2631	0017255	0034	14476								
001		OBS	0020	0024	32754	2631			14476								
		OBS	0025	-0014	32756	2633			14459								
		STD	0030	-0029	3276	2633	0017003	0051	14453								
		OBS	0030	-0029	32756	2633			14453								
		STD	0050	-0032	3276	2634	0016931	0085	14455								
		OBS	0050	-0032	32762	2634			14455								
		STD	0075	-0059	3280	2638	0016553	0127	14447								
		OBS	0075	-0059	32797	2638			14447								
		OBS	0080	-0084	32917	2648			14438								
		STD	0100	-0014	3319	2667	0013753	0165	14478								
		OBS	0100	-0014	33187	2667			14478								
		STD	0125	0012	3335	2679	0012608	0198	14496								
		OBS	0125	0012	33352	2679			14496								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4452 N	04938 W		149	49	04	21	062	1968	001	10131	0067	1	06	1	2		X0	0	3		0092

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	04	S17	193	033	022	7	08	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0228	3287	2627	0017614	0000	14566								
062		OBS	0000	0228	32870	2627			14566								
		STD	0010	0228	3287	2627	0017616	0017	14567								
		OBS	0010	0228	32870	2627			14567								
		STD	0020	0228	3287	2627	0017619	0035	14569								
001		OBS	0020	0228	32870	2627			14569								
		OBS	0024	0228	32870	2627			14570								
		OBS	0025	0209	32870	2628			14562								
		STD	0030	0165	3288	2632	0017110	0052	14543								
		OBS	0030	0165	32879	2632			14543								
		STD	0050	0153	3288	2634	0016984	0086	14541								
		OBS	0050	0153	32885	2634			14541								
		OBS	0055	0152	32896	2634			14542								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44495N	049225W		149	49	04	21	075	1968	001	10132	0071	1	06	2	2		X0	0	3		0093

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	05	S14	207	033	017	7	08	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta$ O DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCD
		STD	0000	0187	3281	2625	0017777	0000	14547								
075		OBS	0000	0187	32810	2625			14547								
		STD	0010	0187	3282	2626	0017724	0017	14549								
		OBS	0010	0187	32817	2626			14549								
		STD	0020	0186	3281	2626	0017735	0035	14550								
001		OBS	0020	0186	32815	2626			14550								
		OBS	0024	0130	32807	2629			14525								
		OBS	0025	0130	32809	2629			14526								
		STD	0030	0129	3289	2635	0016818	0052	14527								
		OBS	0030	0129	32887	2635			14527								
		STD	0050	0124	3290	2636	0016718	0086	14528								
		OBS	0050	0124	32896	2636			14528								
		OBS	0055	0109	32882	2636			14522								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4446 N	049055W		149	49	04	21	089	1968	001	10133	0415	1	05	3	2		X1	0	3		0094

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	04	S16	200	028	028	7	21	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta$ O DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCD
		STD	0000	0080	3272	2625	0017831	0000	14498								
089		OBS	0000	0080	32716	2625			14498								
		STD	0010	0079	3271	2625	0017839	0017	14499								
		OBS	0010	0079	32715	2625			14499								
001		OBS	0016	0106	32816	2631			14513								
		STD	0020	0107	3279	2629	0017404	0035	14514								
		OBS	0020	0107	32792	2629			14514								
		OBS	0025	0060	32772	2630			14494								
		STD	0030	0045	3286	2638	0016566	0052	14489								
		OBS	0030	0045	32857	2638			14489								
		STD	0050	0024	3295	2646	0015772	0084	14484								
		OBS	0050	0024	32947	2646			14484								
		STD	0075	0001	3299	2651	0015345	0123	14478								
		OBS	0075	0001	32988	2651			14478								
		STD	0100	-0023	3306	2658	0014654	0161	14472								
		OBS	0100	-0023	33063	2658			14472								
		STD	0125	-0027	3312	2663	0014174	0197	14475								
		OBS	0125	-0027	33122	2663			14475								
		STD	0150	-0039	3319	2668	0013627	0232	14474								
		OBS	0150	-0039	33186	2668			14474								
		OBS	0190	-0044	33357	2682			14481								
		STD	0200	-0014	3353	2695	0011127	0293	14499								
		OBS	0200	-0014	33527	2695			14499								
		OBS	0215	0061	33787	2712			14539								
		OBS	0227	0344	34097	2715			14670								
		STD	0250	0221	3410	2726	0008342	0342	14621								
		OBS	0250	0221	34101	2726			14621								
		OBS	0254	0208	34102	2727			14616								
		OBS	0274	0405P	3457P	2746P											
		OBS	0286	0297	34302	2735			14662								
		STD	0300	0382	3468	2757	0005504	0377	14706								
		OBS	0300	0382	34683	2757			14706								
		OBS	0360	0406	34857	2769			14728								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4443 N	04849 W		149	48	04	21	100	1968	001	10134	2103	1	05	2	2		X1	0	3		0095

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	04	S16	200	028	028	7	33	

MESSENGR TIME or HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SEC
		STD	0000	0036	3272	2627	0017586	0000	14478								
100		OBS	0000	0036	32719	2627			14478								
		STD	0010	0001	3272	2629	0017429	0017	14463								
		OBS	0010	0001	32718	2629			14463								
		STD	0020	-0021	3272	2630	0017325	0034	14455								
003		OBS	0020	-0021	32718	2630			14455								
		OBS	0025	-0041	32717	2631			14446								
		OBS	0029	-0022	32752	2633			14456								
		STD	0030	-0037	3275	2633	0017039	0052	14450								
		OBS	0030	-0037	32747	2633			14450								
		STD	0050	-0104	3293	2650	0015410	0084	14424								
		OBS	0050	-0104	32927	2650			14424								
		STD	0075	-0089	3314	2666	0013835	0121	14438								
		OBS	0075	-0089	33137	2666			14438								
		STD	0100	-0034	3339	2684	0012131	0153	14471								
		OBS	0100	-0034	33387	2684			14471								
		STD	0125	0028	3352	2692	0011378	0182	14506								
		OBS	0125	0028	33525	2692			14506								
		STD	0150	0053	3363	2700	0010672	0210	14523								
		OBS	0150	0053	33635	2700			14523								
		OBS	0181	-0081	33765	2717			14468								
		STD	0200	0471	3442	2727	0008347	0258	14723								
		OBS	0200	0471	34417	2727			14723								
		OBS	0205	0544	34602	2733			14757								
		OBS	0241	0476	34684	2747			14736								
		OBS	0248	0378	34587	2750			14695								
		STD	0250	0426	3468	2752	0005963	0293	14716								
		OBS	0250	0426	34677	2752			14716								
		OBS	0253	0482	34757	2752			14741								
		OBS	0285	0391	34757	2762			14708								
		STD	0300	0416	3484	2767	0004667	0320	14723								
		OBS	0300	0416	34842	2767			14723								
		OBS	0322	0487	34947	2767			14757								
		OBS	0330	0448	34857	2764			14741								
		OBS	0360	0421	34845	2766			14735								
		STD	0400	0434	3489	2768	0004604	0366	14747								
		OBS	0400	0434	34891	2768			14747								
		STD	0500	0428	3491	2771	0004485	0412	14762								
		OBS	0500	0428	34912	2771			14762								
		STD	0600	0416	3493	2773	0004337	0456	14773								
		OBS	0600	0416	34927	2773			14773								
		STD	0700	0405	3492	2774	0004318	0499	14785								
		OBS	0700	0405	34925	2774			14785								
		STD	0800	0391	3491	2774	0004368	0543	14796								
		OBS	0800	0391	34909	2774			14796								
		STD	0900	0378	3491	2776	0004280	0586	14807								
		OBS	0900	0378	34912	2776			14807								
		STD	1000	0374	3491	2777	0004313	0629	14822								
		OBS	1000	0374	34914	2777			14822								
		STD	1100	0369	3492	2777	0004324	0672	14837								
		OBS	1100	0369	34916	2777			14837								
		STD	1200	0367	3493	2778	0004297	0715	14853								
		OBS	1200	0367	34927	2778			14853								
		OBS	1280	0364	34926	2779			14865								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4440 N	04831 W		149	48	04	21	116	1968	001	10135	2195	1	05	2	2		X1	0	3		0096

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	05	S16	169	023	022	7	38	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	0083	3271	2624	0017921	0000	14499								
116		OBS	0000	0083	32707	2624			14499								
		OBS	0001	-0050	32707	2630			14438								
		STD	0010	-0050	3283	2640	0016387	0017	14441								
003		OBS	0010	-0050	32827	2640			14441								
		STD	0020	-0017	3289	2643	0016058	0033	14459								
		OBS	0020	-0017	32887	2643			14459								
		OBS	0025	0028	32967	2648			14482								
		OBS	0027	0048	32987	2648			14491								
		STD	0030	-0009	3305	2656	0014861	0048	14467								
		OBS	0030	-0009	33047	2656			14467								
		OBS	0033	-0075	33187	2670			14438								
		OBS	0047	0087	33367	2676			14518								
		STD	0050	-0016	3338	2683	0012305	0076	14471								
		OBS	0050	-0016	33377	2683			14471								
		STD	0075	0443	3403	2699	0010809	0104	14686								
		OBS	0075	0443	34032	2699			14686								
		OBS	0088	0516	34152	2701			14720								
		STD	0100	0498	3413	2701	0010692	0131	14714								
		OBS	0100	0498	34129	2701			14714								
		STD	0125	0598	3436	2707	0010190	0157	14762								
		OBS	0125	0598	34357	2707			14762								
		STD	0150	0610	3448	2715	0009479	0182	14773								
		OBS	0150	0955P	3408P	2633P											
		OBS	0179	0755	34867	2726			14840								
		OBS	0183	0786	34942	2727			14853								
		STD	0200	0751	3490	2729	0008305	0226	14842								
		OBS	0200	0751	34897	2729			14842								
		OBS	0210	0709	34857	2731			14827								
		OBS	0220	0745	34967	2735			14844								
		STD	0250	0696	3491	2738	0007515	0266	14829								
		OBS	0250	0696	34912	2738			14829								
		OBS	0267	0666	34887	2740			14819								
		STD	0300	0543	3478	2747	0006573	0301	14774								
		OBS	0300	0543	34782	2747			14774								
		OBS	0338	0483	34787	2755			14756								
		STD	0400	0499	3492	2764	0005133	0360	14775								
		OBS	0400	0499	34921	2764			14775								
		OBS	0410	0517	34957	2764			14784								
		OBS	0435	0442	34866	2766			14756								
		STD	0500	0439	3491	2769	0004642	0409	14766								
		OBS	0500	0439	34907	2769			14766								
		STD	0600	0433	3491	2770	0004638	0455	14780								
		OBS	0600	0433	34912	2770			14780								
		STD	0700	0414	3491	2772	0004503	0501	14789								
		OBS	0700	0414	34914	2772			14789								
		STD	0800	0395	3491	2774	0004429	0545	14797								
		OBS	0800	0395	34907	2774			14797								
		STD	0900	0385	3491	2775	0004402	0590	14810								
		OBS	0900	0385	34907	2775			14810								
		STD	1000	0381	3492	2776	0004375	0633	14825								
		OBS	1000	0381	34917	2776			14825								
		STD	1100	0377	3492	2777	0004354	0677	14840								
		OBS	1100	0377	34925	2777			14840								
		STD	1200	0374	3492	2777	0004406	0721	14856								
		OBS	1200	0374	34924	2777			14856								
		STD	1300	0375	3494	2778	0004406	0765	14873								
		OBS	1300	0375	34937	2778			14873								
		STD	1400	0378	3495	2779	0004457	0809	14891								
		OBS	1400	0378	34947	2779			14891								
		STD	1500	0372	3494	2779	0004485	0854	14905								
		OBS	1500	0372	34945	2779			14905								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4438 N	04818 W		149	48	04	21	136	1968	001	10136	3109	1	05	2	3		X1	0	3		0097

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	04	S10	176	061	056	7	36	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0566	3346	2640	0016382	0000	14717								
136		OBS	0000	0566	33457	2640			14717								
		STD	0010	0474	3332	2639	0016437	0016	14679								
		OBS	0010	0474	33317	2639			14679								
		STD	0020	0421	3328	2642	0016190	0032	14658								
003		OBS	0020	0421	33280	2642			14658								
		OBS	0025	0546	33567	2651			14714								
		STD	0030	0694	3395	2662	0014327	0048	14779								
		OBS	0030	0694	33947	2662			14779								
		OBS	0048	0064P	3451P	2770P											
		STD	0050	0286	3382	2698	0010927	0073	14612								
		OBS	0050	0286	33817	2698			14612								
		OBS	0069	0875	34737	2697			14866								
		STD	0075	0838	3469	2700	0010841	0100	14852								
		OBS	0075	0838	34695	2700			14852								
		STD	0100	0538	3423	2704	0010413	0127	14732								
		OBS	0100	0538	34227	2704			14732								
		STD	0125	0832	3476	2705	0010391	0153	14859								
		OBS	0125	0832	34757	2705			14859								
		OBS	0135	0775	34667	2707			14837								
		STD	0150	0868	3492	2712	0009790	0178	14879								
		OBS	0150	0868	34917	2712			14879								
		OBS	0180	0744	34767	2719			14834								
		OBS	0190	0802	34927	2723			14860								
		STD	0200	0774	3489	2725	0008649	0224	14851								
		OBS	0200	0774	34895	2725			14851								
		OBS	0219	0850	35087	2729			14885								
		STD	0250	0705	3490	2735	0007754	0265	14832								
		OBS	0250	0705	34897	2735			14832								
		STD	0300	0545	3480	2748	0006484	0300	14775								
		OBS	0300	0545	34797	2748			14775								
		OBS	0305	0566	34852	2750			14785								
		OBS	0333	0461	34712	2751			14745								
		OBS	0376	0536P	3495P	2761P											
		OBS	0391	0427	34722	2756			14741								
		STD	0400	0445	3484	2763	0005090	0358	14751								
		OBS	0400	0445	34842	2763			14751								
		OBS	0430	0409	34787	2763			14740								
		OBS	0455	0466	34912	2767			14770								
		OBS	0470	0430	34882	2768			14757								
		STD	0500	0488	3496	2768	0004852	0408	14787								
		OBS	0500	0488	34957	2768			14787								
		STD	0600	0462	3496	2771	0004653	0456	14793								
		OBS	0600	0462	34957	2771			14793								
		OBS	0670	0454	34972	2773			14801								
		STD	0700	0422	3493	2773	0004445	0501	14792								
		OBS	0700	0422	34935	2773			14792								
		STD	0800	0396	3491	2774	0004378	0545	14798								
		OBS	0800	0396	34915	2774			14798								
		STD	0900	0379	3491	2776	0004335	0589	14807								
		OBS	0900	0379	34907	2776			14807								
		STD	1000	0374	3491	2777	0004313	0632	14822								
		OBS	1000	0374	34914	2777			14822								
		STD	1100	0370	3492	2777	0004318	0675	14837								
		OBS	1100	0370	34918	2777			14837								
		OBS	1190	0369	34929	2778			14852								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4435 N	04805 W		149	48	04	21	146	1968	001	10137	3475	1	05	2	3		X1	0	3		0098

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	05	S11	166	056	050	7	28	

MESSENGR TIME or HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta$ DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SC CD
		STD	0000	0116	3274	2624	0017876	0000	14514								
146		OBS	0000	0116	32737	2624			14514								
		STD	0010	-0053	3276	2634	0016911	0017	14439								
		OBS	0010	-0053	32757	2634			14439								
		STD	0020	0115	3295	2641	0016274	0034	14520								
003		OBS	0020	0115	3428P	2748P											
		OBS	0025	0180	33095	2648			14552								
		STD	0030	0145	3344	2679	0012704	0048	14542								
		OBS	0030	0145	3406P	2728P											
		OBS	0032	0092P	3446P	2764P											
		STD	0050	0656	3436	2699	0010810	0072	14773								
		OBS	0050	0656	34357	2699			14773								
		STD	0075	0680	3443	2702	0010571	0098	14788								
		OBS	0075	0680	34435	2702			14788								
		STD	0100	0730	3453	2703	0010557	0125	14813								
		OBS	0100	0730	34532	2703			14813								
		OBS	0114	0739	34547	2703			14818								
		STD	0125	0663	3448	2708	0010118	0151	14790								
		OBS	0125	0663	34477	2708			14790								
		STD	0150	0807	3478	2711	0009915	0176	14854								
		OBS	0150	0807	34777	2711			14854								
		OBS	0163	0929	35032	2712			14905								
		STD	0200	0749	3479	2720	0009079	0223	14840								
		OBS	0200	0749	34789	2720			14840								
		OBS	0226	0497	34532	2733			14740								
		OBS	0248	0585	34693	2735			14781								
		STD	0250	0579	3469	2735	0007664	0265	14779								
		OBS	0250	0579	34687	2735			14779								
		OBS	0285	0447	34632	2747			14730								
		STD	0300	0488	3473	2749	0006336	0300	14751								
		OBS	0300	0488	34727	2749			14751								
		STD	0400	0521	3495	2764	0005145	0357	14784								
		OBS	0400	0521	34955	2764			14784								
		OBS	0420	0436	34855	2765			14751								
		STD	0500	0441	3491	2769	0004671	0406	14767								
		OBS	0500	0441	34907	2769			14767								
		STD	0600	0428	3491	2771	0004560	0453	14778								
		OBS	0600	0428	34915	2771			14778								
		STD	0700	0398	3492	2774	0004297	0497	14782								
		OBS	0700	0398	34917	2774			14782								
		STD	0800	0396	3493	2775	0004298	0540	14798								
		OBS	0800	0396	34927	2775			14798								
		STD	0900	0389	3493	2776	0004277	0583	14812								
		OBS	0900	0389	34930	2776			14812								
		STD	1000	0394	3494	2777	0004317	0626	14831								
		OBS	1000	0394	34945	2777			14831								
		STD	1100	0386	3495	2778	0004299	0669	14844								
		OBS	1100	0386	34947	2778			14844								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTN	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44315N	04743 W		149	47	04	21	164	1968	001	10138	3658	1	05	1	2		X0	0	3		0099

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	05	S11	159	056	050	7	26	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SEC
		STD	0000	0465	3303	2618	0018474	0000	14669								
164		OBS	0000	0465	33032	2618			14669								
		STD	0010	-0015	3289	2644	0016017	0017	14458								
		OBS	0010	-0015	32894	2644			14458								
		STD	0020	-0089	3297	2653	0015158	0032	14427								
003		OBS	0020	-0089	32969	2653			14427								
		OBS	0025	-0094	33017	2657			14426								
		STD	0030	-0041	3307	2659	0014578	0047	14452								
		OBS	0030	-0041	33067	2659			14452								
		STD	0050	0601	3423	2697	0011048	0073	14749								
		OBS	0050	0601	34234	2697			14749								
		STD	0075	0681	3443	2701	0010652	0100	14788								
		OBS	0075	0681	34427	2701			14788								
		STD	0100	0340	3405	2711	0009706	0125	14647								
		OBS	0100	0340	34047	2711			14647								
		STD	0125	0458	3436	2724	0008561	0148	14705								
		OBS	0125	0458	34359	2724			14705								
		OBS	0133	0426	34347	2726			14693								
		STD	0150	0466	3449	2733	0007716	0169	14714								
		OBS	0150	0466	34487	2733			14714								
		OBS	0163	0396	34427	2736			14686								
		OBS	0190	0466	34607	2742			14722								
		STD	0200	0438	3459	2744	0006702	0205	14712								
		OBS	0200	0438	34589	2744			14712								
		OBS	0215	0414	34575	2746			14704								
		OBS	0225	0559	34857	2751			14769								
		STD	0250	0576	3491	2753	0005981	0236	14781								
		OBS	0250	0576	34907	2753			14781								
		STD	0300	0536	3482	2751	0006227	0267	14772								
		OBS	0300	0536	34817	2751			14772								
		STD	0400	0486	3485	2759	0005533	0326	14768								
		OBS	0400	0486	34847	2759			14768								
		STD	0500	0422	3489	2770	0004541	0376	14759								
		OBS	0500	0422	34895	2770			14759								
		STD	0600	0393	3488	2772	0004428	0421	14763								
		OBS	0600	0393	34879	2772			14763								
		STD	0700	0381	3488	2773	0004411	0465	14774								
		OBS	0700	0381	34876	2773			14774								
		STD	0800	0381	3489	2774	0004420	0509	14791								
		OBS	0800	0381	34887	2774			14791								
		STD	0900	0383	3490	2775	0004442	0554	14809								
		OBS	0900	0383	34899	2775			14809								
		STD	1000	0383	3491	2776	0004433	0598	14826								
		OBS	1000	0383	34912	2776			14826								
		OBS	1098	0378	34912	2776			14840								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	44275N	04723 W		149	47	04	21	184	1968	001	10139	3840	1	04	1	2		X1	0	3		0100

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	04	S10	156	089	089	7	29	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0627	3314	2607	0019497	0000	14737								
184		OBS	0000	0627	33137	2607			14737								
		STD	0010	0407	3322	2638	0016517	0018	14649								
		OBS	0010	0407	33217	2638			14649								
		STD	0020	0431	3339	2650	0015476	0034	14663								
003		OBS	0020	0431	33387	2650			14663								
		OBS	0025	0416	33369	2650			14657								
		STD	0030	0322	3335	2657	0014725	0049	14618								
		OBS	0030	0322	33353	2657			14618								
		OBS	0040	0251	33355	2664			14589								
		STD	0050	0286	3379	2696	0011099	0074	14612								
		OBS	0050	0286	33794	2696			14612								
		OBS	0055	0266	33796	2698			14604								
		STD	0075	0301	3404	2714	0009410	0100	14626								
		OBS	0075	0301	34037	2714			14626								
		STD	0100	0386	3424	2722	0008671	0123	14669								
		OBS	0100	0386	34242	2722			14669								
		OBS	0113	0464	34417	2728			14706								
		STD	0125	0376	3442	2737	0007247	0143	14671								
		OBS	0125	0376	34422	2737			14671								
		STD	0150	0486	3458	2738	0007272	0161	14723								
		OBS	0150	0486	34576	2738			14723								
		OBS	0162	0548	34719	2742			14753								
		OBS	0180	0456	34647	2747			14717								
		STD	0200	0656	3507	2755	0005752	0193	14807								
		OBS	0200	0656	35067	2755			14807								
		OBS	0230	0536	34900	2757			14761								
		STD	0250	0564	3494	2757	0005560	0222	14777								
		OBS	0250	0564	34944	2757			14777								
		STD	0300	0516	3492	2762	0005188	0248	14765								
		OBS	0300	0516	34924	2762			14765								
		OBS	0340	0466	34907	2766			14751								
		STD	0400	0424	3486	2767	0004711	0298	14743								
		OBS	0400	0424	34862	2767			14743								
		STD	0500	0406	3486	2769	0004584	0344	14752								
		OBS	0500	0406	34865	2769			14752								
		STD	0600	0395	3487	2771	0004538	0390	14764								
		OBS	0600	0395	34867	2771			14764								
		STD	0700	0384	3486	2772	0004523	0435	14776								
		OBS	0700	0384	34865	2772			14776								
		STD	0800	0375	3487	2773	0004497	0480	14788								
		OBS	0800	0375	34867	2773			14788								
		STD	0900	0374	3488	2774	0004511	0525	14805								
		OBS	0900	0374	34875	2774			14805								
		STD	1000	0373	3488	2774	0004515	0571	14821								
		OBS	1000	0373	34885	2774			14821								
		STD	1100	0373	3490	2775	0004512	0616	14838								
		OBS	1100	0373	34897	2775			14838								
		STD	1200	0386	3494	2777	0004449	0661	14861								
		OBS	1200	0386	34938	2777			14861								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BDTTDM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4421 N	04643 W		149	46	04	21	220	1968	001	10140	4023	1	06	4	2		X1	0	3		0101

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	07	S30	129	094	094	7	29	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	CODE
		STD	0000	1490	3597	2676	0012935	0000	15083								
220		OBS	0000	1490	35974	2676			15083								
		STD	0010	1490	3597	2676	0012956	0012	15084								
		OBS	0010	1490	35975	2676			15084								
		STD	0020	1487	3597	2677	0012951	0025	15085								
003		OBS	0020	1487	35971	2677			15085								
		OBS	0025	1486	35967	2677			15085								
		STD	0030	1483	3596	2677	0012981	0038	15085								
		OBS	0030	1483	35960	2677			15085								
		STD	0050	1480	3595	2677	0013033	0064	15087								
		OBS	0050	1480	35952	2677			15087								
		STD	0075	1353	3562	2678	0012975	0097	15046								
		OBS	0075	1353	35617	2678			15046								
		STD	0100	1085	3501	2683	0012544	0129	14951								
		OBS	0100	1085	35007	2683			14951								
		OBS	0108	1067	35005	2686			14946								
		OBS	0112	1134	35177	2687			14972								
		STD	0125	0907	3475	2693	0011565	0159	14887								
		OBS	0143	0838	34662	2697			14863								
		STD	0150	0888	3478	2699	0011077	0187	14884								
		OBS	0150	0888	34784	2699			14884								
		STD	0200	0646	3453	2714	0009636	0239	14796								
		OBS	0200	0646	34527	2714			14796								
		OBS	0225	0616	34529	2718			14788								
		STD	0250	0660	3464	2721	0009069	0286	14811								
		OBS	0250	0660	34637	2721			14811								
		OBS	0262	0545	34563	2730			14766								
		STD	0300	0638	3477	2734	0007888	0328	14812								
		OBS	0300	0638	34767	2734			14812								
		OBS	0320	0685	34865	2735			14835								
		OBS	0355	0525	34717	2744			14775								
		STD	0400	0717	3507	2747	0006892	0402	14864								
		OBS	0400	0717	35069	2747			14864								
		OBS	0436	0488	34743	2751			14774								
		STD	0500	0538	3491	2758	0005779	0465	14807								
		OBS	0500	0538	34914	2758			14807								
		STD	0600	0501	3495	2765	0005182	0520	14809								
		OBS	0600	0501	34949	2765			14809								
		OBS	0665	0535	35052	2770			14835								
		STD	0700	0513	3503	2771	0004828	0570	14831								
		OBS	0700	0513	3403P	2691P											
		STD	0800	0476	3500	2772	0004753	0618	14832								
		OBS	0800	0476	3400P	2693P											
		STD	0900	0446	3498	2774	0004604	0665	14836								
		OBS	0900	0446	34980	2774			14836								
		STD	1000	0439	3499	2776	0004567	0711	14850								
		OBS	1000	0439	34987	2776			14850								
		STD	1100	0407	3496	2777	0004487	0756	14853								
		OBS	1100	0407	34957	2777			14853								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BDTTDM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	43185N	05027 W		150	30	04	24	029	1968	001	10141	0073	1	02	4	3		X2	0	3		0102

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	36	S24	244	022	000	7	09	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	CODE
		STD	0000	0296	3296	2628	0017469	0000	14597								
029		OBS	0000	0296	32959	2628			14597								
		STD	0010	0296	3296	2628	0017473	0017	14598								
		OBS	0010	0296	32959	2628			14598								
		STD	0020	0296	3296	2628	0017478	0034	14600								
001		OBS	0020	0296	32959	2628			14600								
		OBS	0025	0296	32959	2628			14601								
		STD	0030	0296	3296	2628	0017482	0052	14602								
		OBS	0030	0296	32959	2628			14602								
		OBS	0044	0294	32961	2629			14603								
		STD	0050	0249	3298	2634	0016979	0086	14585								
		OBS	0050	0249	32976	2634			14585								
		OBS	0055	0218	33027	2640			14573								
		OBS	0060	0218	33057	2643			14574								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4301 N	050275W		150	30	04	24	043	1968	001	10142	0078	1	03	4	4		X2	0	3		0103

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	36	S24	244	022	000	7	08	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$X10^7$	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0196	3289	2631	0017242	0000	14552								
043		OBS	0000	0196	32888	2631			14552								
		STD	0010	0196	3289	2631	0017235	0017	14554								
		OBS	0010	0196	32889	2631			14554								
		STD	0020	0196	3290	2631	0017192	0034	14555								
001		OBS	0020	0196	32896	2631			14555								
		OBS	0025	0196	32895	2631			14556								
		STD	0030	0196	3290	2631	0017194	0051	14557								
		OBS	0030	0196	32896	2631			14557								
		OBS	0041	0196	32896	2631			14559								
		STD	0050	0111	3301	2646	0015757	0084	14524								
		OBS	0050	0111	33012	2646			14524								
		OBS	0065	0104	33031	2648			14524								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4243 N	05029 W		150	20	04	24	060	1968	001	10143	0603	1	02	2	6		X2	0	3		0104

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	36	S20	244	033	011	7	26	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$X10^7$	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0174	3281	2626	0017713	0000	14541								
060		OBS	0000	0174	32807	2626			14541								
		STD	0010	0174	3281	2626	0017715	0017	14543								
		OBS	0010	0174	32807	2626			14543								
		STD	0020	0174	3281	2626	0017716	0035	14544								
002		OBS	0020	0174	32807	2626			14544								
		OBS	0025	0174	32807	2626			14545								
		STD	0030	0173	3281	2626	0017708	0053	14546								
		OBS	0030	0173	32807	2626			14546								
		OBS	0038	0172	32807	2626			14546								
		STD	0050	0121	3280	2629	0017423	0088	14526								
		OBS	0050	0121	32801	2629			14526								
		STD	0075	0004	3304	2654	0014985	0128	14480								
		OBS	0075	0004	33037	2654			14480								
		STD	0100	-0019	3319	2667	0013725	0164	14475								
		OBS	0100	-0019	33187	2667			14475								
		OBS	0123	-0018	33307	2677			14481								
		STD	0125	-0014	3335	2680	0012518	0197	14484								
		OBS	0125	-0014	33347	2680			14484								
		OBS	0135	0016	33417	2684			14501								
		OBS	0144	0186	33627	2691			14581								
		STD	0150	0186	3379	2704	0010375	0226	14585								
		OBS	0150	0186	33790	2704			14585								
		OBS	0154	0179	33977	2719			14585								
		OBS	0168	0447	34300	2720			14706								
		OBS	0177	0425	34290	2722			14699								
		OBS	0184	0212	34237	2737			14608								
		OBS	0196	0210	34247	2738			14609								
		STD	0200	0254	3438	2745	0006510	0268	14631								
		OBS	0200	0254	34377	2745			14631								
		OBS	0215	0276	34429	2747			14643								
		STD	0250	0284	3446	2749	0006189	0300	14653								
		OBS	0250	0284	34459	2749			14653								
		STD	0300	0316	3455	2754	0005814	0330	14676								
		OBS	0300	0316	34554	2754			14676								
		STD	0400	0392	3478	2764	0004949	0383	14728								
		OBS	0400	0392	34783	2764			14728								
		STD	0500	0405	3486	2769	0004600	0431	14751								
		OBS	0500	0405	34861	2769			14751								
		OBS	0540	0405	34891	2772			14758								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4232 N	05030 W		150	20	04	24	073	1968	001	10144	1810	1	02	3	3		X2	0	3		0105

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	36	S21	244	022	000	7	32	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0407	3313	2631	0017206	0000	14646								
073		OBS	0000	0407	33125	2631			14646								
		STD	0010	0409	3313	2631	0017214	0017	14649								
		OBS	0010	0409	33127	2631			14649								
		STD	0020	0406	3312	2631	0017212	0034	14649								
003		OBS	0020	0406	33124	2631			14649								
		OBS	0025	0326	33032	2632			14615								
		STD	0030	0206	3299	2639	0016507	0051	14563								
		OBS	0030	0206	32995	2639			14563								
		STD	0050	0126	3343	2679	0012632	0080	14537								
		OBS	0050	0126	33435	2679			14537								
		OBS	0056	0096	33457	2683			14524								
		OBS	0066	0316	33887	2701			14629								
		STD	0075	0326	3396	2705	0010209	0109	14635								
		OBS	0075	0326	33960	2705			14635								
		OBS	0090	0314	34047	2713			14634								
		STD	0100	0325	3416	2721	0008719	0132	14642								
		OBS	0100	0325	34159	2721			14642								
		OBS	0119	0310	34192	2725			14639								
		OBS	0120	0284	34197	2728			14628								
		STD	0125	0426	3444	2733	0007641	0153	14692								
		OBS	0125	0426	34437	2733			14692								
		OBS	0145	0506	34617	2739			14731								
		STD	0150	0558	3480	2747	0006415	0170	14756								
		OBS	0150	0558	34802	2747			14756								
		OBS	0160	0564	34817	2747			14760								
		OBS	0170	0540	34788	2748			14752								
		STD	0200	0545	3484	2751	0006051	0201	14759								
		OBS	0200	0545	34838	2751			14759								
		STD	0250	0490	3484	2758	0005462	0230	14745								
		OBS	0250	0490	34839	2758			14745								
		OBS	0264	0470	34833	2760			14739								
		STD	0300	0489	3493	2765	0004855	0256	14754								
		OBS	0300	0489	34927	2765			14754								
		STD	0400	0483	3496	2769	0004634	0303	14769								
		OBS	0400	0483	34962	2769			14769								
		STD	0500	0446	3495	2772	0004409	0349	14770								
		OBS	0500	0446	34950	2772			14770								
		OBS	0550	0436	34935	2772			14773								
		STD	0600	0406	3491	2773	0004331	0392	14769								
		OBS	0600	0406	34912	2773			14769								
		STD	0700	0394	3492	2775	0004237	0435	14781								
		OBS	0700	0394	34919	2775			14781								
		STD	0800	0386	3493	2777	0004145	0477	14794								
		OBS	0800	0386	34931	2777			14794								
		STD	0900	0374	3492	2777	0004182	0519	14805								
		OBS	0900	0374	34920	2777			14805								
		STD	1000	0374	3493	2778	0004216	0561	14822								
		OBS	1000	0374	34927	2778			14822								
		STD	1100	0373	3492	2778	0004299	0603	14838								
		OBS	1100	0373	34925	2778			14838								
		STD	1200	0370	3493	2778	0004323	0646	14854								
		OBS	1200	0370	34929	2778			14854								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR,1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4213 N	050315W		150	20	04	24	097	1968	001	10145	2926	1	01	5	2		X2	0	3		0106

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	01	S18	257	022	017	7	29	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ△O DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCD
		STD	0000	0394	3315	2634	0016907	0000	14641								
097		OBS	0000	0394	33148	2634			14641								
		STD	0010	0394	3315	2634	0016915	0016	14643								
		OBS	0010	0394	33148	2634			14643								
		STD	0020	0289	3331	2657	0014754	0032	14602								
003		OBS	0020	0289	33312	2657			14602								
		OBS	0025	0226	33407	2670			14576								
		STD	0030	0157	3361	2691	0011530	0045	14549								
		OBS	0030	0157	33607	2691			14549								
		OBS	0036	0157	33638	2694			14551								
		STD	0050	0327	3410	2716	0009172	0066	14634								
		OBS	0050	0327	34097	2716			14634								
		OBS	0065	0387	34227	2721			14663								
		STD	0075	0386	3426	2724	0008478	0088	14665								
		OBS	0075	0386	34265	2724			14665								
		STD	0100	0394	3436	2731	0007852	0109	14674								
		OBS	0100	0394	34362	2731			14674								
		OBS	0110	0396	34397	2733			14677								
		STD	0125	0426	3454	2741	0006884	0127	14694								
		OBS	0125	0426	34537	2741			14694								
		OBS	0135	0456	34625	2745			14709								
		STD	0150	0457	3464	2746	0006460	0144	14712								
		OBS	0150	0457	34642	2746			14712								
		OBS	0173	0490	34782	2754			14732								
		STD	0200	0487	3481	2756	0005610	0174	14735								
		OBS	0200	0487	34807	2756			14735								
		STD	0250	0488	3487	2761	0005182	0201	14745								
		OBS	0250	0488	34874	2761			14745								
		OBS	0280	0486	34907	2764			14749								
		STD	0300	0453	3487	2764	0004892	0226	14738								
		OBS	0300	0453	34867	2764			14738								
		OBS	0320	0414	34820	2765			14725								
		STD	0400	0417	3488	2770	0004489	0273	14740								
		OBS	0400	0417	34881	2770			14740								
		STD	0500	0425	3491	2771	0004428	0318	14760								
		OBS	0500	0425	34915	2771			14760								
		STD	0600	0414	3492	2773	0004370	0362	14772								
		OBS	0600	0414	34919	2773			14772								
		STD	0700	0398	3492	2774	0004297	0405	14782								
		OBS	0700	0398	34917	2774			14782								
		STD	0800	0386	3491	2775	0004269	0448	14794								
		OBS	0800	0386	34915	2775			14794								
		STD	0900	0376	3492	2777	0004204	0490	14806								
		OBS	0900	0376	34920	2777			14806								
		STD	1000	0373	3493	2778	0004205	0532	14822								
		OBS	1000	0373	34927	2778			14822								
		STD	1100	0367	3493	2779	0004160	0574	14836								
		OBS	1100	0367	34934	2779			14836								
		STD	1200	0367	3495	2780	0004156	0616	14853								
		OBS	1200	0367	34947	2780			14853								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP COOE	LATITUOE ° 1/10	LONGITUOE ° 1/10	DRIFT INDCTR	MARSDEN SOUARE 10°	MARSDEN SOUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. OEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEA-THER COOE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	4155 N	05033 W		150	10	04	24	118	1968	001	10146	3601	1	01	4	3		X2	0	3		0107

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	01	S20	264	022	017	7	24	

MESSENGR TIME HR 1/10	CAST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALT-X10⁷	ΣΔO DYN. M. X 10³	SOUNO VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SIO₄-Si µg-at/l	pH	SOC
		STD	0000	0359	3308	2632	0017088	0000	14625								
118		OBS	0000	0359	33081	2632			14625								
		STD	0010	0359	3308	2632	0017095	0017	14627								
		OBS	0010	0359	33081	2632			14627								
		STD	0020	0359	3308	2633	0017083	0034	14629								
003		OBS	0020	0359	33083	2633			14629								
		OBS	0022	0359	33083	2633			14629								
		OBS	0025	0291	33105	2640			14601								
		STD	0030	0276	3329	2656	0014839	0050	14597								
		OBS	0030	0276	33287	2656			14597								
		OBS	0042	0136	33395	2676			14539								
		STD	0050	0198	3355	2683	0012271	0077	14570								
		OBS	0050	0198	33547	2683			14570								
		OBS	0062	0338	33760	2688			14636								
		STD	0075	0261	3386	2703	0010431	0105	14606								
		OBS	0075	0261	33857	2703			14606								
		STD	0100	0396	3415	2713	0009485	0130	14672								
		OBS	0100	0396	34147	2713			14672								
		OBS	0114	0284	34137	2723			14626								
		STD	0125	0298	3425	2731	0007808	0152	14636								
		OBS	0125	0298	34250	2731			14636								
		STD	0150	0326	3441	2741	0006898	0170	14654								
		OBS	0150	0326	34407	2741			14654								
		STD	0200	0396	3455	2745	0006573	0204	14694								
		OBS	0200	0396	34547	2745			14694								
		STD	0250	0457	3477	2757	0005568	0234	14730								
		OBS	0250	0457	34775	2757			14730								
		STD	0300	0541	3498	2763	0005098	0261	14776								
		OBS	0300	0541	34977	2763			14776								
		STD	0400	0496	3497	2768	0004718	0310	14774								
		OBS	0400	0496	34972	2768			14774								
		STD	0500	0460	3496	2771	0004497	0356	14775								
		OBS	0500	0460	34960	2771			14775								
		STD	0600	0446	3500	2776	0004166	0399	14787								
		OBS	0600	0446	34997	2776			14787								
		STD	0700	0436	3499	2776	0004219	0441	14799								
		OBS	0700	0436	34987	2776			14799								
		STD	0800	0438	3502	2778	0004130	0483	14817								
		OBS	0800	0438	35017	2778			14817								
		STD	0900	0418	3500	2779	0004136	0524	14825								
		OBS	0900	0418	34996	2779			14825								
		STD	1000	0405	3499	2779	0004122	0566	14836								
		OBS	1000	0405	34990	2779			14836								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MD	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4126 N	050345W		150	10	04	24	147	1968	001	10147	3820	1	02	4	4		X2	0	3		0108

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	01	S20	271	067	044	7	21	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SEC
		STD	0000	1490	3608	2684	0012175	0000	15084								
147		OBS	0000	1490	36078	2684			15084								
		STD	0010	1490	3608	2684	0012206	0012	15086								
		OBS	0010	1490	36078	2684			15086								
		STD	0020	1490	3608	2684	0012236	0024	15087								
003		OBS	0020	1490	36078	2684			15087								
		OBS	0025	1490	36078	2684			15088								
		STD	0030	1490	3608	2684	0012267	0036	15089								
		OBS	0030	1490	36078	2684			15089								
		STD	0050	1490	3608	2684	0012329	0061	15092								
		OBS	0050	1490	36078	2684			15092								
		STD	0075	1490	3608	2684	0012405	0092	15096								
		OBS	0075	1490	36078	2684			15096								
		OBS	0094	1485	36067	2684			15098								
		STD	0100	1410	3590	2688	0012143	0122	15073								
		OBS	0100	1410	35897	2688			15073								
		STD	0125	1374	3582	2689	0012055	0153	15064								
		OBS	0125	1374	35819	2689			15064								
		STD	0150	1375	3583	2690	0012064	0183	15068								
		OBS	0150	1375	35830	2690			15068								
		OBS	0189	1371	35818	2690			15073								
		STD	0200	1305	3564	2690	0012191	0243	15051								
		OBS	0200	1305	35642	2690			15051								
		STD	0250	1244	3556	2696	0011751	0303	15038								
		OBS	0250	1244	35560	2696			15038								
		STD	0300	1172	3546	2701	0011285	0361	15020								
		OBS	0300	1172	35456	2701			15020								
		STD	0400	0896	3514	2726	0009054	0463	14933								
		OBS	0400	0896	35142	2726			14933								
		STD	0500	0692	3499	2744	0007261	0544	14869								
		OBS	0500	0692	34992	2744			14869								
		STD	0600	0552	3495	2759	0005843	0610	14830								
		OBS	0600	0552	34947	2759			14830								
		OBS	0620	0585	35041	2763			14847								
		STD	0700	0546	3503	2767	0005247	0665	14845								
		OBS	0700	0546	35034	2767			14845								
		STD	0800	0513	3503	2770	0004974	0716	14848								
		OBS	0800	0513	35030	2770			14848								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4502 N	04841 W		149	58	05	11	237	1968	002	10148	0896	1	23	1	2		X2	0	3		0109

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S10	105	022	022	8	26	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	S CODE
		STD	0000	0155	3278	2625	0017795	0000	14532								
237		OBS	0000	0155	32780	2625			14532								
		STD	0010	0082	3279	2630	0017277	0017	14501								
		OBS	0010	0082	32790	2630			14501								
		STD	0020	-0017	3286	2641	0016257	0034	14459								
001		OBS	0020	-0017	32861	2641			14459								
		OBS	0025	-0092	32912	2648			14425								
		STD	0030	-0096	3301	2656	0014817	0049	14426								
		OBS	0030	-0096	33010	2656			14426								
		OBS	0040	-0086	33112	2664			14433								
		OBS	0045	-0095	33130	2666			14430								
		STD	0050	-0064	3331	2679	0012641	0077	14448								
		OBS	0050	-0064	33307	2679			14448								
		OBS	0052	-0053	33315	2679			14454								
		OBS	0067	-0053	33360	2683			14457								
		STD	0075	-0018	3362	2702	0010437	0106	14478								
		OBS	0075	-0018	33620	2702			14478								
		OBS	0082	0030	33661	2703			14502								
		STD	0100	0048	3377	2711	0009583	0131	14514								
		OBS	0100	0048	33775	2711			14514								
		STD	0125	0085	3391	2720	0008773	0154	14537								
		OBS	0125	0085	33910	2720			14537								
		OBS	0129	0098	33928	2721			14544								
		STD	0150	0103	3395	2722	0008566	0175	14550								
		OBS	0150	0103	33953	2722			14550								
		OBS	0178	0120	34140	2736			14565								
		STD	0200	0174	3424	2740	0006918	0214	14594								
		OBS	0200	0174	34238	2740			14594								
		STD	0250	0273	3447	2751	0006028	0246	14648								
		STD	0300	0350	3465	2758	0005435	0275	14692								
		OBS	0300	0350	34648	2758			14692								
		OBS	0390	0436	34850	2765			14746								
		STD	0400	0438	3485	2765	0004913	0327	14748								
		OBS	0400	0438	34855	2765			14748								
		OBS	0420	0448	34875	2766			14756								
		STD	0500	0432	3490	2769	0004615	0374	14763								
		OBS	0500	0432	34900	2769			14763								
		STD	0600	0403	3490	2773	0004371	0419	14768								
		OBS	0600	0403	34902	2773			14768								
		STD	0700	0392	3490	2774	0004341	0463	14779								
		OBS	0700	0392	34902	2774			14779								
		OBS	0775	0384	34900	2774			14789								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4502 N	04841 W		149	58	05	12	008	1968	002	10149	0921	1	23	1	2		X2	0	3		0110

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S10	105	022	022	3	25	

MESSENGR TIME HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	Δ D DYN. M. $x 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0084	3282	2633	0017025	0000	14501								
008		OBS	0000	0084	32825	2633			14501								
		STD	0010	0062	3294	2643	0016055	0016	14494								
		STD	0020	0041	3304	2653	0015120	0032	14488								
		OBS	0025	0030	33098	2658			14484								
001		OBS	0029	-0077	33140	2666			14436								
		STD	0030	-0080	3316	2668	0013715	0046	14435								
		OBS	0033	-0086	33215	2672			14434								
		STD	0050	-0081	3334	2683	0012286	0072	14441								
		OBS	0050	-0081	33345	2683			14441								
		OBS	0070	-0046	33630	2704			14464								
		STD	0075	-0048	3374	2713	0009374	0099	14466								
		OBS	0075	-0048	33741	2713			14466								
		OBS	0080	-0049	33790	2717			14467								
		STD	0100	0035	3384	2717	0009038	0122	14509								
		OBS	0100	0035	33838	2717			14509								
		STD	0125	0066	3395	2725	0008325	0144	14529								
		STD	0150	0100	3408	2733	0007565	0164	14550								
		OBS	0150	0100	34083	2733			14550								
		STD	0200	0180	3438	2751	0005886	0197	14598								
		OBS	0200	0180	34381	2751			14598								
		OBS	0233	0249	34510	2756			14636								
		OBS	0249	0251	34553	2759			14640								
		STD	0250	0253	3456	2760	0005162	0225	14641								
		STD	0300	0348	3479	2769	0004347	0249	14693								
		OBS	0300	0348	34791	2769			14693								
		OBS	0357	0433	34859	2766			14739								
		OBS	0379	0430	34890	2769			14742								
		STD	0400	0447	3489	2767	0004724	0294	14753								
		OBS	0400	0447	34894	2767			14753								
		OBS	0448	0432	34903	2770			14755								
		STD	0500	0432	3492	2771	0004472	0340	14763								
		OBS	0517	0432	34922	2771			14766								
		OBS	0588	0414	34918	2773			14770								
		STD	0600	0405	3492	2774	0004267	0384	14769								
		OBS	0600	0405	34919	2774			14769								
		OBS	0678	0403	34920	2774			14781								
		STD	0700	0395	3492	2775	0004220	0426	14781								
		OBS	0710	0392	34922	2775			14781								
		OBS	0762	0388	34915	2775			14788								
		STD	0800	0384	3492	2776	0004230	0469	14793								
		OBS	0800	0384	34917	2776			14793								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4452 N	04837 W		149	48	05	12	026	1968	002	10150	0988	1	23	1	2		X2	0	3		0111

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S10	115	022	022	4	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0075	3282	2633	0017016	0000	14497								
026		OBS	0000	0075	32820	2633			14497								
		STD	0010	0072	3284	2635	0016825	0016	14498								
		OBS	0011	0068	32845	2636			14496								
		STD	0020	-0013	3281	2637	0016674	0033	14460								
001		OBS	0021	-0017	32804	2637			14458								
		OBS	0025	-0020	32842	2640			14458								
		STD	0030	-0062	3285	2642	0016195	0050	14439								
		OBS	0032	-0072	32870	2644			14435								
		OBS	0041	-0072	33145	2666			14441								
		OBS	0042	-0079	33130	2665			14437								
		OBS	0045	-0079	33180	2669			14439								
		STD	0050	-0053	3336	2683	0012281	0078	14454								
		OBS	0050	-0053	33360	2683			14454								
		OBS	0051	-0044	33340	2681			14458								
		OBS	0072	-0041	33334	2680			14463								
		STD	0075	-0024	3336	2682	0012395	0109	14471								
		OBS	0075	-0024	33360	2682			14471								
		OBS	0093	0044	33700	2706			14510								
		STD	0100	0045	3374	2708	0009861	0137	14512								
		OBS	0100	0045	33736	2708			14512								
		OBS	0107	0050	33885	2720			14518								
		STD	0125	0086	3393	2721	0008666	0160	14538								
		OBS	0140	0100	33950	2722			14547								
		STD	0150	0101	3396	2723	0008493	0181	14549								
		OBS	0150	0101	33961	2723			14549								
		OBS	0153	0102	33998	2726			14551								
		STD	0200	0215	3431	2743	0006697	0219	14613								
		OBS	0200	0215	34310	2743			14613								
		OBS	0249	0302	34589	2758			14662								
		STD	0250	0304	3459	2758	0005374	0250	14664								
		STD	0300	0398	3475	2761	0005148	0276	14714								
		OBS	0300	0398	34753	2761			14714								
		OBS	0340	0444	34887	2767			14741								
		OBS	0380	0450	34869	2765			14750								
		STD	0400	0441	3488	2767	0004772	0325	14750								
		OBS	0400	0441	34879	2767			14750								
		STD	0500	0439	3489	2768	0004758	0373	14766								
		STD	0600	0422	3490	2771	0004578	0420	14775								
		OBS	0600	0422	34904	2771			14775								
		OBS	0612	0419	34909	2772			14776								
		OBS	0618	0412	34900	2772			14774								
		STD	0700	0402	3491	2773	0004411	0465	14784								
		OBS	0700	0402	34908	2773			14784								
		OBS	0760	0390	34891	2773			14788								
		OBS	0795	0389	34895	2774			14794								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BDTTDM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		Ev	4502 N	04841 W		149	58	05	12	037	1968	002	10151	0914	1	23	0	4		X2	0	3		0112

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SO	32	S06	119	028	028	3	31	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ ΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0132	3283	2631	0017270	0000	14523								
037		OBS	0000	0132	32830	2631			14523								
		STD	0010	0114	3285	2633	0017034	0017	14517								
		OBS	0018	0078	32848	2635			14502								
		STD	0020	0063	3284	2636	0016777	0034	14495								
		OBS	0025	0030	32840	2637			14481								
		STD	0030	0004	3285	2640	0016391	0050	14470								
		OBS	0040	-0038	32940	2648			14453								
		STD	0050	-0065	3310	2662	0014232	0081	14445								
		OBS	0050	-0065	33099	2662			14445								
		OBS	0060	-0070	33140	2666			14445								
		OBS	0070	-0060	33310	2679			14453								
		STD	0075	-0040	3338	2684	0012166	0114	14464								
		OBS	0075	-0040	33380	2684			14464								
		OBS	0090	-0038	33382	2684			14468								
		STD	0100	0000	3359	2699	0010742	0142	14490								
		OBS	0100	0000	33590	2699			14490								
		STD	0125	0080	3383	2714	0009385	0168	14534								
		OBS	0130	0090	33855	2715			14539								
		STD	0150	0110	3391	2719	0008938	0191	14552								
		OBS	0150	0110	33910	2719			14552								
		OBS	0160	0110	33923	2720			14554								
		OBS	0190	0175	34237	2740			14592								
		STD	0200	0197	3427	2741	0006849	0230	14604								
		OBS	0200	0197	34270	2741			14604								
		OBS	0247	0325	34585	2755			14672								
		STD	0250	0326	3459	2755	0005604	0261	14673								
		OBS	0270	0340	34630	2757			14683								
		STD	0300	0390	3474	2761	0005160	0288	14710								
		OBS	0300	0390	34740	2761			14710								
		OBS	0335	0410	34798	2764			14725								
		OBS	0350	0440	34870	2766			14741								
		STD	0400	0445	3488	2767	0004776	0338	14752								
		OBS	0400	0445	34885	2767			14752								
		OBS	0420	0440	34890	2768			14753								
		OBS	0460	0438	34890	2768			14759								
		STD	0500	0430	3491	2770	0004523	0384	14762								
		OBS	0500	0430	34910	2770			14762								
		OBS	0590	0425	34909	2771			14775								
		STD	0600	0420	3491	2771	0004530	0429	14775								
		OBS	0600	0420	34907	2771			14775								
		OBS	0620	0415	34905	2772			14776								
		OBS	0650	0410	34903	2772			14779								
		STD	0700	0408	3490	2772	0004528	0475	14786								
		OBS	0700	0408	34902	2772			14786								
		OBS	0750	0398	34901	2773			14790								
		STD	0800	0398	3490	2773	0004497	0520	14799								
		OBS	0800	0398	34903	2773			14799								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR, 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4502 N	04841 W		149	58	05	12	046	1968	002	10152	0930	1	23	0	4		X2	0	3		0113

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S09	122	028	028	3	26	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	M Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SEC
		STD	0000	0149	3284	2630	0017288	0000	14530								
046		OBS	0000	0149	32841	2630			14530								
		OBS	0005	0149	32800	2627			14531								
		STD	0010	0121	3278	2627	0017613	0017	14519								
		STD	0020	0062	3273	2627	0017637	0035	14493								
001		OBS	0025	0030	32705	2626			14479								
		STD	0030	-0010	3284	2639	0016435	0052	14463								
		OBS	0035	-0038	32945	2649			14453								
		STD	0050	-0053	3307	2659	0014496	0083	14450								
		OBS	0050	-0053	33070	2659			14450								
		OBS	0055	-0068	33060	2659			14444								
		OBS	0063	-0038	33310	2678			14462								
		STD	0075	-0034	3333	2680	0012564	0116	14466								
		OBS	0075	-0034	33332	2680			14466								
		OBS	0085	-0031	33395	2685			14470								
		STD	0100	0029	3365	2702	0010434	0145	14504								
		OBS	0100	0029	33650	2702			14504								
		OBS	0101	0041	33645	2701			14509								
		OBS	0119	0060	33810	2714			14523								
		OBS	0122	0115	33900	2717			14550								
		STD	0125	0117	3391	2718	0009001	0169	14551								
		STD	0150	0119	3395	2721	0008690	0192	14557								
		OBS	0150	0119	33950	2721			14557								
		OBS	0161	0113	33958	2722			14556								
		OBS	0173	0137	34130	2734			14571								
		STD	0200	0198	3429	2742	0006733	0230	14605								
		OBS	0200	0198	34287	2742			14605								
		OBS	0248	0295	34513	2752			14658								
		STD	0250	0299	3452	2753	0005847	0262	14660								
		STD	0300	0377	3472	2761	0005168	0289	14704								
		OBS	0300	0377	34720	2761			14704								
		STD	0400	0438	3487	2766	0004832	0339	14749								
		OBS	0400	0438	34867	2766			14749								
		OBS	0430	0447	34880	2766			14757								
		STD	0500	0440	3490	2768	0004723	0387	14766								
		OBS	0500	0440	34898	2768			14766								
		STD	0600	0426	3491	2771	0004557	0433	14777								
		OBS	0600	0426	34912	2771			14777								
		OBS	0660	0411	34908	2772			14781								
		STD	0700	0405	3491	2773	0004452	0478	14785								
		OBS	0733	0402	34908	2773			14789								
		STD	0800	0399	3491	2774	0004455	0523	14799								
		OBS	0800	0399	34910	2774			14799								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° °1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4502 N	04842 W		149	58	05	12	057	1968	002	10153	0938	1	30	0	4		X2	0	3		0114

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	30	S09	122	028	028	3	27	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0150	3286	2632	0017161	0000	14531								
057		OBS	0000	0150	32859	2632			14531								
		STD	0010	0128	3285	2632	0017116	0017	14523								
		OBS	0010	0128	32847	2632			14523								
		STD	0020	0097	3279	2629	0017377	0034	14510								
001		OBS	0025	0075	32785	2630			14500								
		STD	0030	0035	3281	2635	0016873	0051	14484								
		OBS	0040	-0019	32880	2643			14461								
		STD	0050	-0040	3297	2651	0015311	0083	14455								
		OBS	0050	-0040	32970	2651			14455								
		OBS	0067	-0063	33238	2673			14450								
		STD	0075	-0038	3328	2676	0012943	0119	14464								
		OBS	0075	-0038	33280	2676			14464								
		OBS	0095	-0027	33382	2684			14474								
		STD	0100	-0010	3358	2699	0010730	0148	14485								
		OBS	0100	-0010	33585	2699			14485								
		STD	0125	0043	3375	2710	0009724	0174	14516								
		OBS	0130	0057	33788	2712			14524								
		OBS	0147	0110	33910	2719			14552								
		STD	0150	0120	3392	2719	0008916	0197	14557								
		OBS	0150	0120	33922	2719			14557								
		OBS	0188	0120	34105	2733			14566								
		STD	0200	0183	3420	2736	0007292	0238	14597								
		OBS	0200	0183	34198	2736			14597								
		OBS	0240	0218	34392	2749			14622								
		STD	0250	0242	3445	2752	0005855	0270	14634								
		OBS	0277	0298	34582	2758			14665								
		STD	0300	0338	3464	2759	0005345	0298	14687								
		OBS	0300	0338	34645	2759			14687								
		OBS	0345	0390	34752	2762			14718								
		STD	0400	0415	3484	2766	0004792	0349	14739								
		OBS	0400	0415	34838	2766			14739								
		OBS	0450	0445	34880	2766			14760								
		OBS	0460	0450	34888	2766			14764								
		OBS	0495	0445	34890	2767			14768								
		STD	0500	0444	3489	2767	0004818	0397	14768								
		OBS	0537	0438	34900	2769			14772								
		STD	0600	0430	3491	2770	0004634	0444	14779								
		OBS	0600	0430	34908	2770			14779								
		STD	0700	0409	3491	2773	0004476	0490	14787								
		OBS	0700	0409	34910	2773			14787								
		OBS	0728	0401	34910	2774			14788								
		STD	0800	0398	3491	2774	0004444	0535	14799								
		OBS	0800	0398	34910	2774			14799								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIRECT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4452 N	04837 W		149	48	05	12	068	1968	002	10154	0914	1	30	1	4		X2	0	3		0115

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S10	125	028	028	3	18	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔΩ DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	CODE
		STD	0000	0160	3286	2631	0017188	0000	14536								
068		OBS	0000	0160	32863	2631			14536								
		STD	0010	0095	3286	2636	0016780	0017	14508								
		OBS	0010	0095	32865	2636			14508								
		STD	0020	0087	3286	2636	0016734	0033	14506								
001		OBS	0020	0087	32865	2636			14506								
		OBS	0025	0074	32854	2636			14501								
		STD	0030	0040	3285	2638	0016575	0050	14486								
		OBS	0030	0040	32853	2638			14486								
		STD	0050	-0068	3321	2672	0013345	0080	14445								
		OBS	0050	-0068	33213	2672			14445								
		STD	0075	-0038	3334	2681	0012482	0112	14465								
		OBS	0075	-0038	33340	2681			14465								
		STD	0100	0013	3372	2709	0009780	0140	14498								
		OBS	0100	0013	33725	2709			14498								
		STD	0125	0079	3391	2720	0008771	0163	14534								
		OBS	0125	0079	33906	2720			14534								
		STD	0150	0120	3399	2725	0008357	0185	14558								
		OBS	0150	0120	33995	2725			14558								
		STD	0200	0200	3427	2741	0006842	0223	14606								
		OBS	0200	0200	34275	2741			14606								
		STD	0250	0286	3452	2753	0005776	0254	14654								
		STD	0300	0352	3469	2761	0005113	0281	14694								
		OBS	0300	0352	34694	2761			14694								
		STD	0400	0427	3486	2767	0004759	0331	14744								
		OBS	0400	0427	34860	2767			14744								
		STD	0500	0435	3489	2769	0004699	0378	14764								
		OBS	0500	0435	34894	2769			14764								
		STD	0600	0423	3491	2771	0004552	0424	14776								
		OBS	0600	0423	34908	2771			14776								
		STD	0700	0402	3491	2773	0004393	0469	14784								
		OBS	0700	0402	34910	2773			14784								
		STD	0800	0399	3491	2774	0004437	0513	14799								
		OBS	0800	0399	34912	2774			14799								
		OBS	0810	0399	34912	2774			14801								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	DAY	HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	HGT	PER	SEA	WEATHER CODE	CLOUD CODES TYPE	AMT		NDDC STATION NUMBER
318039		EV	4452 N	04837 W		149	48	05	12	078	1968	002	10155	0935	1	30	0	2		X2	0	3		0116

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S10	132	028	028	6	26	

MESSENGR TIME OF HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0151	3287	2633	0017070	0000	14532								
078		OBS	0000	0151	32872	2633			14532								
		STD	0010	0123	3286	2634	0016962	0017	14521								
		STD	0020	0090	3286	2635	0016833	0033	14508								
		OBS	0025	0072	32851	2636			14500								
		STD	0030	0051	3284	2636	0016766	0050	14491								
001		OBS	0035	0031	32820	2636			14483								
		OBS	0039	-0035	33070	2659			14456								
		STD	0050	-0064	3320	2671	0013436	0080	14447								
		OBS	0050	-0064	33203	2671			14447								
		STD	0075	-0032	3347	2691	0011517	0112	14469								
		OBS	0075	-0032	33470	2691			14469								
		STD	0100	0017	3377	2713	0009475	0138	14500								
		OBS	0100	0017	33768	2713			14500								
		STD	0125	0113	3394	2721	0008729	0161	14550								
		OBS	0125	0113	33940	2721			14550								
		STD	0150	0128	3401	2725	0008297	0182	14562								
		OBS	0150	0128	34010	2725			14562								
		OBS	0157	0128	34009	2725			14563								
		OBS	0160	0171	34248	2741			14586								
		OBS	0182	0201	34274	2741			14603								
		STD	0200	0208	3428	2741	0006882	0220	14609								
		OBS	0200	0208	34278	2741			14609								
		OBS	0217	0231	34439	2752			14624								
		OBS	0220	0262	34560	2759			14640								
		STD	0250	0330	3461	2757	0005454	0251	14675								
		OBS	0288	0369	34673	2758			14698								
		STD	0300	0370	3469	2759	0005334	0278	14701								
		OBS	0300	0370	34689	2759			14701								
		OBS	0311	0371	34693	2759			14703								
		OBS	0372	0438	34865	2766			14744								
		STD	0400	0439	3487	2766	0004833	0329	14749								
		OBS	0400	0439	34868	2766			14749								
		OBS	0468	0435	34883	2768			14759								
		OBS	0473	0430	34870	2767			14757								
		STD	0500	0430	3489	2769	0004666	0376	14762								
		OBS	0550	0429	34910	2771			14770								
		STD	0600	0417	3491	2772	0004490	0422	14773								
		OBS	0600	0417	34908	2772			14773								
		OBS	0670	0403	34897	2772			14779								
		STD	0700	0399	3490	2773	0004442	0466	14783								
		STD	0800	0398	3491	2774	0004444	0511	14799								
		OBS	0800	0398	34910	2774			14799								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4452 N	04837 W		149	48	05	12	080	1968	002	10156	0960	1	30	0	2		X1	0	3		0117

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	S0	30	S09	132	028	028	6	33	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	NOTE
		STD	0000	0159	3287	2632	0017134	0000	14535								
080		OBS	0000	0159	32870	2632			14535								
		STD	0010	0099	3285	2634	0016934	0017	14510								
		OBS	0010	0099	32848	2634			14510								
		STD	0020	0098	3284	2633	0017015	0034	14511								
001		OBS	0023	0073	32833	2634			14500								
		OBS	0025	0050	32835	2636			14490								
		STD	0030	-0062	3283	2641	0016268	0050	14439								
		OBS	0031	-0078	32835	2641			14432								
		OBS	0046	-0072	33115	2664			14441								
		STD	0050	-0055	3325	2674	0013094	0080	14452								
		OBS	0050	-0055	33252	2674			14452								
		OBS	0070	-0050	33321	2680			14458								
		STD	0075	-0037	3340	2685	0012031	0111	14466								
		OBS	0075	-0037	33400	2685			14466								
		OBS	0079	-0032	33423	2687			14469								
		OBS	0084	0011	33460	2688			14490								
		STD	0100	0024	3371	2707	0009946	0138	14502								
		OBS	0100	0024	33710	2707			14502								
		OBS	0115	0043	33829	2716			14515								
		STD	0125	0090	3397	2724	0008379	0161	14540								
		OBS	0140	0128	34053	2729			14561								
		STD	0150	0131	3403	2727	0008172	0182	14563								
		OBS	0150	0131	34030	2727			14563								
		OBS	0156	0131	34060	2729			14565								
		OBS	0161	0173	34318	2747			14588								
		STD	0200	0204	3428	2742	0006808	0219	14607								
		OBS	0200	0204	34283	2742			14607								
		OBS	0219	0210	34289	2742			14613								
		OBS	0234	0240	34420	2750			14631								
		OBS	0248	0273	34521	2755			14649								
		STD	0250	0278	3453	2755	0005582	0250	14651								
		STD	0300	0361	3470	2761	0005156	0277	14697								
		OBS	0300	0361	34700	2761			14697								
		OBS	0320	0369	34700	2760			14704								
		OBS	0343	0404	34809	2765			14724								
		OBS	0379	0438	34867	2766			14745								
		STD	0400	0439	3487	2767	0004788	0327	14749								
		OBS	0400	0439	34874	2767			14749								
		OBS	0456	0435	34891	2768			14757								
		OBS	0460	0429	34890	2769			14755								
		STD	0500	0427	3491	2771	0004493	0373	14761								
		OBS	0500	0427	34909	2771			14761								
		OBS	0540	0425	34908	2771			14767								
		STD	0600	0418	3491	2772	0004465	0418	14774								
		OBS	0600	0418	34912	2772			14774								
		OBS	0687	0404	34905	2773			14782								
		STD	0700	0403	3491	2773	0004439	0463	14784								
		STD	0800	0398	3491	2774	0004462	0507	14799								
		OBS	0800	0398	34908	2774			14799								

REFERENCE CTRY CODE	REFERENCE IO. ND.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4452 N	04837 W		149	48	05	12	097	1968	002	10157	0914	1	30	1	3		X1	0	3		0118

WATER COLDR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S09	146	033	033	6	26	

MESSENGR TIME HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg - at/l	TOTAL-P µg - at/l	NO_2-N µg - at/l	NO_3-N µg - at/l	SiO_4-Si µg - at/l	pH	SCC
		STD	0000	0161	3288	2632	0017079	0000	14536								
097		OBS	0000	0161	32879	2632			14536								
		OBS	0008	0088	32850	2635			14504								
		STD	0010	0086	3285	2635	0016843	0017	14504								
001		OBS	0018	0080	32850	2635			14503								
		STD	0020	0060	3281	2633	0016994	0033	14493								
		OBS	0025	0000	32750	2631			14466								
		STD	0030	-0075	3274	2634	0016954	0050	14432								
		OBS	0030	-0075	32740	2634			14432								
		STD	0050	-0050	3330	2678	0012715	0080	14455								
		OBS	0050	-0050	33305	2678			14455								
		OBS	0060	-0050	33370	2684			14457								
		STD	0075	-0028	3350	2693	0011319	0110	14472								
		OBS	0075	-0028	33498	2693			14472								
		OBS	0082	0000	33658	2705			14488								
		STD	0100	0010	3370	2707	0009951	0137	14496								
		OBS	0100	0010	33700	2707			14496								
		STD	0125	0115	3393	2719	0008847	0160	14551								
		OBS	0139	0138	34003	2724			14564								
		STD	0150	0138	3404	2727	0008157	0181	14567								
		OBS	0150	0138	34038	2727			14567								
		OBS	0158	0180	34210	2738			14589								
		STD	0200	0207	3430	2743	0006728	0219	14609								
		OBS	0200	0207	34297	2743			14609								
		OBS	0220	0220	34398	2750			14619								
		OBS	0227	0265	34440	2749			14641								
		STD	0250	0283	3450	2752	0005873	0250	14653								
		STD	0300	0340	3464	2759	0005365	0278	14688								
		OBS	0300	0340	34645	2759			14688								
		OBS	0312	0357	34682	2760			14697								
		OBS	0357	0392	34800	2766			14721								
		OBS	0370	0435	34850	2765			14742								
		STD	0400	0439	3485	2765	0004968	0330	14749								
		OBS	0400	0439	34850	2765			14749								
		STD	0500	0437	3490	2769	0004630	0378	14765								
		OBS	0580	0423	34913	2771			14773								
		STD	0600	0418	3491	2772	0004483	0423	14774								
		OBS	0600	0418	34910	2772			14774								
		STD	0700	0408	3491	2773	0004466	0468	14786								
		OBS	0700	0408	34910	2773			14786								
		STD	0800		3491												
		OBS	0800	0498P	34907	2763P											
		OBS	0849	0490P	34910	2764P											

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	4452 N	04837 W		149	48	05	12	107	1968	002	10158	0896	1	30	2			X4	0	3		0119

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	32	S13	159	033	033	3	32	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0162	3286	2631	0017224	0000	14536								
107		OBS	0000	0162	32860	2631			14536								
		OBS	0008	0161	32855	2631			14537								
		STD	0010	0132	3285	2632	0017080	0017	14525								
001		OBS	0012	0109	32855	2634			14515								
		STD	0020	0095	3286	2635	0016843	0034	14510								
		OBS	0025	0087	32859	2636			14507								
		STO	0030	-0032	3286	2642	0016180	0050	14453								
		OBS	0037	-0099	32865	2645			14423								
		OBS	0038	-0099	32867	2645			14424								
		OBS	0039	-0079	32870	2644			14433								
		STD	0050	-0071	3316	2668	0013697	0080	14443								
		OBS	0050	-0071	33165	2668			14443								
		OBS	0051	-0061	33210	2671			14448								
		OBS	0061	-0059	33270	2676			14452								
		STD	0075	-0042	3334	2681	0012481	0113	14463								
		OBS	0075	-0042	33338	2681			14463								
		STD	0100	0000	3372	2710	0009713	0141	14492								
		OBS	0100	0000	33725	2710			14492								
		OBS	0121	0047	33806	2714			14518								
		STD	0125	0048	3381	2714	0009311	0164	14519								
		OBS	0136	0051	33824	2715			14522								
		STD	0150	0125	3406	2729	0007917	0186	14561								
		OBS	0150	0125	34058	2729			14561								
		OBS	0153	0137	34067	2729			14567								
		OBS	0167	0135	34068	2730			14569								
		OBS	0169	0170	34195	2737			14586								
		OBS	0190	0181	34228	2739			14595								
		STD	0200	0190	3427	2742	0006818	0223	14601								
		OBS	0200	0190	34268	2742			14601								
		OBS	0230	0213	34340	2745			14617								
		OBS	0237	0249	34470	2753			14636								
		STD	0250	0279	3452	2754	0005718	0254	14651								
		OBS	0260	0293	34541	2755			14660								
		OBS	0280	0300	34570	2756			14666								
		STD	0300	0320	3461	2758	0005395	0282	14679								
		OBS	0300	0320	34614	2758			14679								
		OBS	0362	0388	34763	2763			14720								
		OBS	0368	0407	34795	2764			14729								
		STD	0400	0407	3482	2766	0004838	0333	14735								
		OBS	0400	0407	34820	2766			14735								
		OBS	0415	0428	34872	2768			14747								
		STD	0500	0425	3491	2771	0004490	0380	14760								
		OBS	0541	0420	34912	2772			14765								
		STD	0600	0410	3491	2773	0004382	0424	14771								
		OBS	0600	0410	34911	2773			14771								
		STD	0700	0398	3491	2774	0004341	0468	14782								
		STD	0800	0391	3491	2775	0004350	0511	14796								
		OBS	0800	0391	34911	2775			14796								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4452 N	04837 W		149	48	05	12	116	1968	002	10159	0878	1	30	2	3		X1	0	3		0120

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	32	S13	159	033	033	4	20	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10²	Σ ΔD DYN. M. x 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	S ΩU
		STD	0000	0108	3287	2635	0016799	0000	14512								
116		OBS	0000	0108	32872	2635			14512								
		STD	0010	0097	3289	2637	0016617	0016	14509								
		OBS	0010	0097	32888	2637			14509								
		STD	0020	0052	3289	2640	0016315	0033	14491								
001		OBS	0020	0052	32895	2640			14491								
		OBS	0025	-0079	32900	2647			14431								
		STD	0030	-0080	3297	2652	0015198	0048	14433								
		OBS	0030	-0080													
		STD	0050	-0069	3322	2672	0013291	0077	14445								
		OBS	0050	-0069	33220	2672			14445								
		STD	0075	-0039	3350	2694	0011254	0108	14467								
		OBS	0075	-0039	33501	2694			14467								
		STD	0100	0021	3380	2715	0009250	0133	14502								
		OBS	0100	0021	33800	2715			14502								
		STD	0125	0119	3399	2724	0008388	0155	14553								
		OBS	0125	0119	33990	2724			14553								
		STD	0150	0138	3410	2732	0007688	0175	14568								
		OBS	0150	0138	34100	2732			14568								
		STD	0200	0200	3431	2744	0006563	0211	14606								
		OBS	0200	0200	34312	2744			14606								
		STD	0250	0276	3452	2755	0005662	0242	14650								
		OBS	0250	0276	34520	2755			14650								
		STD	0300	0321	3461	2758	0005440	0269	14679								
		OBS	0300	0321	34610	2758			14679								
		OBS	0355	0420	34825	2765			14733								
		STD	0400	0432	3489	2769	0004593	0320	14746								
		OBS	0400	0432	34889	2769			14746								
		STD	0500	0423	3492	2772	0004363	0364	14760								
		OBS	0500	0423	34921	2772			14760								
		STD	0600	0409	3492	2774	0004282	0408	14770								
		OBS	0600	0409	34923	2774			14770								
		STD	0700	0398	3492	2775	0004235	0450	14782								
		OBS	0700	0398	34925	2775			14782								
		STD	0800	0388	3492	2776	0004238	0492	14795								
		OBS	0800	0388	34922	2776			14795								
		OBS	0850	0386	34923	2776			14802								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4459 N	04847 W		149	48	05	12	145	1968	002	10160	0951	1	23	1	4		X1	0	3		0121

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S12	166	039	039	6	32	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta$D DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0160	3292	2636	0016772	0000	14536								
145		OBS	0000	0160	32918	2636			14536								
		STD	0010	0135	3294	2639	0016455	0016	14527								
		OBS	0019	0112	32952	2642			14519								
		STD	0020	0090	3295	2643	0016082	0032	14509								
001		OBS	0025	0000	32957	2648			14469								
		STD	0030	-0053	3296	2650	0015364	0048	14445								
		OBS	0035	-0085	32960	2652			14431								
		STD	0050	-0060	3326	2675	0013030	0077	14449								
		OBS	0050	-0060	33258	2675			14449								
		OBS	0065	-0038	33360	2682			14463								
		STD	0075	-0020	3354	2696	0010996	0107	14476								
		OBS	0075	-0020	33545	2696			14476								
		OBS	0090	0000	33710	2709			14490								
		STD	0100	0032	3382	2716	0009118	0132	14508								
		OBS	0100	0032	33825	2716			14508								
		STD	0125	0128	3403	2727	0008157	0153	14558								
		OBS	0128	0132	34042	2728			14560								
		OBS	0140	0135	34078	2730			14564								
		STD	0150	0150	3412	2732	0007639	0173	14573								
		OBS	0150	0150	34118	2732			14573								
		OBS	0155	0146	34141	2735			14572								
		OBS	0165	0150	34185	2738			14577								
		OBS	0195	0190	34260	2741			14600								
		STD	0200	0199	3431	2744	0006571	0209	14606								
		OBS	0200	0199	34310	2744			14606								
		OBS	0217	0220	34485	2757			14620								
		STD	0250	0233	3455	2761	0005050	0238	14632								
		OBS	0278	0305	34665	2763			14669								
		STD	0300	0400	3479	2764	0004889	0262	14715								
		OBS	0300	0400	34790	2764			14715								
		OBS	0350	0443	34850	2764			14742								
		OBS	0380	0430	34875	2768			14742								
		OBS	0395	0439	34870	2766			14748								
		STD	0400	0430	3487	2767	0004717	0311	14745								
		OBS	0400	0430	34870	2767			14745								
		OBS	0450	0432	34895	2769			14755								
		OBS	0480	0430	34899	2770			14759								
		STD	0500	0429	3490	2770	0004549	0357	14762								
		OBS	0580	0421	34915	2772			14772								
		STD	0600	0418	3491	2772	0004447	0402	14774								
		OBS	0600	0418	34915	2772			14774								
		OBS	0675	0400	34917	2774			14779								
		STD	0700	0400	3492	2774	0004310	0446	14783								
		OBS	0700	0400	34919	2774			14783								
		OBS	0754	0400	34920	2774			14792								
		STD	0800	0399	3492	2775	0004384	0489	14799								
		OBS	0800	0399	34920	2775			14799								
		OBS	0852	0390	34920	2775			14804								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318	039	EV	4458 N	04843 W		149	48	05	12	157	1968	002	10161	0933	1	30	1	3		X1	0	3		0122

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S12	179	033	028	7	33	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCD
		STD	0000	0162	3297	2640	0016355	0000	14538								
157		OBS	0000	0162	32975	2640			14538								
		OBS	0005	0160	32967	2640			14538								
001		OBS	0007	0146	32953	2639			14532								
		STD	0010	0144	3296	2640	0016356	0016	14532								
		STD	0020	0138	3298	2642	0016130	0032	14531								
		OBS	0023	0136	32993	2643			14530								
		OBS	0025	0120	32999	2645			14524								
		STD	0030	-0015	3300	2652	0015186	0048	14463								
		OBS	0033	-0068	33020	2656			14439								
		OBS	0045	-0068	33220	2672			14444								
		STD	0050	-0053	3331	2679	0012661	0076	14453								
		OBS	0050	-0053	33310	2679			14453								
		OBS	0060	-0041	33370	2683			14461								
		OBS	0062	-0012	33380	2683			14475								
		STD	0075	-0010	3346	2689	0011657	0106	14479								
		OBS	0075	-0010	33465	2689			14479								
		OBS	0080	-0010	33476	2690			14480								
		STD	0100	0011	3372	2709	0009780	0133	14497								
		OBS	0100	0011	33724	2709			14497								
		OBS	0102	0053	33738	2708			14516								
		STD	0125	0069	3389	2719	0008849	0156	14529								
		OBS	0133	0088	33950	2723			14540								
		STD	0150	0152	3410	2731	0007784	0177	14574								
		OBS	0150	0152	34100	2731			14574								
		OBS	0168	0153	34200	2739			14579								
		OBS	0185	0202	34318	2745			14605								
		OBS	0198	0205	34345	2747			14608								
		STD	0200	0215	3437	2748	0006247	0212	14614								
		OBS	0200	0215	34370	2748			14614								
		OBS	0211	0280	34631	2763			14647								
		STD	0250	0371	3472	2761	0005084	0240	14694								
		OBS	0289	0419	34805	2763			14721								
		STD	0300	0425	3483	2765	0004862	0265	14726								
		OBS	0300	0425	34830	2765			14726								
		OBS	0359	0431	34862	2766			14739								
		OBS	0361	0443	34882	2767			14744								
		OBS	0369	0443	34885	2767			14746								
		OBS	0379	0431	34847	2765			14742								
		STD	0400	0430	3487	2767	0004690	0313	14745								
		OBS	0400	0430	34873	2767			14745								
		STD	0500	0429	3491	2771	0004496	0359	14762								
		OBS	0550	0429	34920	2771			14770								
		STD	0600	0410	3492	2773	0004310	0403	14771								
		OBS	0600	0410	34921	2773			14771								
		OBS	0695	0401	34919	2774			14783								
		STD	0700	0401	3492	2774	0004320	0446	14783								
		STD	0800	0392	3492	2775	0004299	0489	14796								
		OBS	0800	0392	34920	2775			14796								
		OBS	0850	0382	34920	2776			14800								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUEST INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEA-THER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4458 N	04843 W		149	48	05	12	167	1968	002	10162	0905	1	30	1	3		X1	0	3		0123

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S12	186	039	033	7	30	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	S C C
		STD	0000	0162	3296	2639	0016482	0000	14538								
167		OBS	0000	0162	32958	2639			14538								
		OBS	0008	0117	32965	2642			14519								
		STD	0010	0117	3296	2642	0016156	0016	14519								
		STD	0020	0117	3296	2642	0016183	0032	14521								
001		OBS	0022	0117	32960	2642			14521								
		OBS	0025	0000	32960	2648			14469								
		STD	0030	-0092	3303	2658	0014673	0047	14428								
		OBS	0030	-0092	33030	2658			14428								
		OBS	0037	-0092	33210	2672			14432								
		OBS	0047	-0040	33270	2675			14458								
		STD	0050	-0038	3327	2675	0012988	0075	14460								
		OBS	0050	-0038	33275	2675			14460								
		OBS	0060	-0040	33435	2688			14463								
		STD	0075	-0017	3347	2691	0011548	0106	14476								
		OBS	0075	-0017	33475	2691			14476								
		STD	0100	-0007	3361	2701	0010569	0133	14487								
		OBS	0100	-0007	33608	2701			14487								
		STD	0125	0005	3377	2713	0009413	0158	14499								
		OBS	0127	0010	33785	2714			14502								
		STD	0150	0110	3404	2729	0007965	0180	14554								
		OBS	0150	0110	34038	2729			14554								
		OBS	0162	0150	34065	2728			14574								
		OBS	0177	0150	34240	2742			14579								
		OBS	0190	0193	34288	2743			14601								
		STD	0200	0200	3433	2746	0006428	0216	14606								
		OBS	0200	0200	34330	2746			14606								
		OBS	0212	0225	34390	2749			14620								
		OBS	0245	0315	34595	2757			14667								
		STD	0250	0331	3464	2759	0005265	0245	14676								
		OBS	0280	0401	34810	2766			14713								
		STD	0300	0425	3482	2764	0004898	0271	14726								
		OBS	0300	0425	34825	2764			14726								
		OBS	0350	0425	34858	2767			14735								
		OBS	0380	0435	34863	2766			14744								
		STD	0400	0440	3487	2766	0004843	0319	14749								
		OBS	0400	0440	34868	2766			14749								
		OBS	0430	0430	34888	2769			14750								
		STD	0500	0430	3490	2770	0004559	0366	14762								
		OBS	0530	0430	34910	2770			14767								
		STD	0600	0412	3492	2773	0004340	0411	14772								
		OBS	0600	0412	34920	2773			14772								
		OBS	0670	0408	34918	2773			14781								
		STD	0700	0400	3492	2774	0004310	0454	14783								
		OBS	0700	0400	34918	2774			14783								
		STD	0800	0392	3492	2775	0004308	0497	14796								
		OBS	0800	0392	34919	2775			14796								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DUPL INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4500 N	04848 W		149	58	05	12	177	1968	002	10163	0907	1	30	1	3		X1	0	3		0124

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S07	190	044	039	7	28	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0162	3273	2621	0018202	0000	14535								
177		OBS	0000	0162	32732	2621			14535								
		STD	0010	0104	3278	2628	0017459	0017	14511								
		OBS	0012	0099	32800	2630			14509								
		STD	0020	0099	3290	2638	0016544	0034	14512								
001		OBS	0021	0099	32908	2639			14512								
		OBS	0025	0063	32938	2643			14497								
		STD	0030	-0001	3297	2649	0015504	0050	14469								
		OBS	0037	-0062	33010	2655			14443								
		STD	0050	-0084	3309	2662	0014220	0080	14436								
		OBS	0050	-0084	33091	2662			14436								
		OBS	0052	-0091	33109	2664			14433								
		OBS	0063	-0091	33170	2669			14436								
		STD	0075	-0031	3334	2681	0012493	0114	14468								
		OBS	0075	-0031	33343	2681			14468								
		OBS	0080	-0049	33355	2682			14461								
		OBS	0097	-0012	33381	2683			14481								
		STD	0100	-0010	3347	2690	0011597	0144	14484								
		OBS	0100	-0010	33472	2690			14484								
		OBS	0115	-0010	33538	2695			14487								
		STD	0125	0011	3366	2704	0010227	0171	14500								
		STD	0150	0069	3391	2721	0008705	0195	14534								
		OBS	0150	0069	33907	2721			14534								
		OBS	0181	0148	34062	2728			14577								
		OBS	0193	0150	34119	2733			14580								
		STD	0200	0185	3428	2743	0006645	0233	14599								
		OBS	0200	0185	34285	2743			14599								
		OBS	0229	0213	34355	2747			14617								
		OBS	0242	0298	34565	2756			14659								
		STD	0250	0298	3459	2758	0005353	0263	14661								
		OBS	0271	0339	34648	2759			14683								
		OBS	0283	0389	34780	2764			14708								
		STD	0300	0407	3479	2764	0004939	0289	14718								
		OBS	0300	0407	34793	2764			14718								
		OBS	0318	0427	34806	2762			14730								
		STD	0400	0429	3485	2766	0004833	0338	14745								
		OBS	0400	0429	34853	2766			14745								
		STD	0500	0430	3489	2769	0004657	0385	14762								
		OBS	0563	0430	34910	2770			14773								
		STD	0600	0418	3492	2772	0004420	0430	14774								
		OBS	0600	0418	34919	2772			14774								
		STD	0700	0401	3492	2774	0004320	0474	14783								
		OBS	0700	0401	34918	2774			14783								
		STD	0800	0398	3492	2775	0004373	0518	14799								
		OBS	0800	0398	34919	2775			14799								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4501 N	04851 W		149	58	05	12	186	1968	002	10164	0887	1	30	1	3		X1	0	3		0125

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mb)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	S0	31	S16	190	039	033	7	25	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	ΣΔD DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCO
		STD	0000	0185	3268	2615	0018746	0000	14544								
186		OBS	0000	0185	32680	2615			14544								
		OBS	0009	0089	32705	2623			14503								
		STD	0010	0088	3273	2625	0017785	0018	14503								
		STD	0020	0083	3288	2638	0016580	0035	14505								
001		OBS	0021	0083	32889	2638			14505								
		OBS	0025	0045	32900	2641			14488								
		STD	0030	-0027	3292	2646	0015782	0051	14456								
		STD	0050	-0112	3298	2654	0014984	0082	14421								
		OBS	0050	-0112	32980	2654			14421								
		OBS	0060	-0031	33360	2682			14466								
		OBS	0068	-0030	33350	2681			14467								
		OBS	0071	-0046	33340	2681			14460								
		STD	0075	-0030	3350	2693	0011292	0115	14471								
		OBS	0075	-0030	33500	2693			14471								
		OBS	0079	-0009	33560	2697			14482								
		OBS	0099	-0001	33562	2697			14489								
		STD	0100	0011	3363	2702	0010456	0142	14495								
		OBS	0100	0011	33635	2702			14495								
		STD	0125	0068	3389	2719	0008849	0166	14529								
		STD	0150	0120	3408	2732	0007681	0187	14559								
		OBS	0150	0120	34085	2732			14559								
		STD	0200	0205	3431	2744	0006592	0222	14608								
		OBS	0200	0205	34313	2744			14608								
		OBS	0218	0210	34340	2746			14614								
		OBS	0230	0295	34582	2758			14656								
		STD	0250	0303	3460	2759	0005293	0252	14663								
		OBS	0267	0321	34641	2760			14674								
		STD	0300	0385	3477	2764	0004860	0278	14709								
		OBS	0300	0385	34773	2764			14709								
		OBS	0335	0421	34832	2765			14730								
		STD	0400	0419	3483	2765	0004903	0326	14740								
		OBS	0400	0419	34829	2765			14740								
		STD	0500	0427	3490	2770	0004520	0373	14761								
		OBS	0500	0427	34905	2770			14761								
		OBS	0570	0422	34918	2772			14771								
		STD	0600	0414	3492	2773	0004379	0418	14772								
		OBS	0600	0414	34918	2773			14772								
		STD	0700	0399	3492	2774	0004308	0461	14783								
		OBS	0700	0399	34917	2774			14783								
		STD	0800	0398	3492	2775	0004373	0505	14799								
		OBS	0800	0398	34919	2775			14799								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4501 N	04851 W		149	58	05	12	197	1968	002	10165	0896	1	30	1	3		X1	0	3		0126

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S16	193	044	033	7	34	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOUND
		STD	0000	0180	3276	2622	0018094	0000	14543								
197		OBS	0000	0180	32762	2622			14543								
		STD	0010	0180	3274	2620	0018276	0018	14544								
		OBS	0010	0180	32738	2620			14544								
		STD	0020	0090	3270	2623	0018019	0036	14505								
002		OBS	0020	0090	32699	2623			14505								
		OBS	0025	0063	32680	2623			14494								
		STD	0030	0009	3277	2633	0017061	0053	14471								
		OBS	0040	-0060	32910	2647			14443								
		STD	0050	-0075	3300	2655	0014944	0085	14439								
		OBS	0050	-0075	33001	2655			14439								
		OBS	0055	-0110	33101	2664			14425								
		OBS	0063	-0110	33257	2677			14428								
		OBS	0070	-0020	33412	2686			14473								
		STD	0075	-0020	3354	2696	0011032	0118	14476								
		OBS	0075	-0020	33540	2696			14476								
		OBS	0087	-0034	33545	2697			14471								
		OBS	0095	-0034	33544	2697			14473								
		STD	0100	-0002	3354	2695	0011084	0146	14488								
		OBS	0100	-0002	33544	2695			14488								
		OBS	0110	-0002	33570	2698			14490								
		STD	0125	0029	3371	2707	0009953	0172	14509								
		OBS	0130	0040	33755	2710			14515								
		STD	0150	0083	3389	2719	0008918	0195	14540								
		OBS	0150	0083	33890	2719			14540								
		OBS	0162	0094	33940	2722			14548								
		OBS	0172	0135	34023	2726			14569								
		OBS	0182	0135	34080	2730			14571								
		OBS	0190	0154	34123	2733			14582								
		STD	0200	0154	3421	2740	0006979	0235	14584								
		OBS	0200	0154	34210	2740			14584								
		OBS	0230	0220	34352	2746			14620								
		OBS	0245	0220	34395	2749			14623								
		STD	0250	0236	3444	2752	0005924	0267	14632								
		OBS	0285	0325	34640	2760			14679								
		STD	0300	0350	3467	2759	0005292	0295	14692								
		OBS	0300	0350	34667	2759			14692								
		OBS	0315	0350	34690	2761			14695								
		OBS	0350	0408	34800	2764			14727								
		STD	0400	0425	3484	2765	0004882	0346	14743								
		OBS	0400	0425	34840	2765			14743								
		OBS	0455	0425	34878	2768			14752								
		OBS	0460	0430	34878	2768			14755								
		STD	0500	0430	3490	2769	0004613	0394	14762								
		OBS	0540	0430	34910	2770			14769								
		STD	0600	0420	3492	2772	0004450	0439	14775								
		OBS	0600	0420	34918	2772			14775								
		STD	0700	0400	3492	2774	0004301	0483	14783								
		OBS	0700	0400	34920	2774			14783								
		STD	0800	0398	3492	2775	0004373	0526	14799								
		OBS	0800	0398	34920	2775			14799								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NDOC STATION NUMBER
318039		EV	4503 N	04853 W		149	58	05	12	208	1968	002	10166	0905	1	30	1	3		X1	0	3		0127

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	30	S16	196	044	033	7	31	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCO
		STD	0000	0187	3263	2611	0019108	0000	14544								
208		OBS	0000	0187	32635	2611			14544								
		OBS	0005	0180	32698	2617			14543								
		STO	0010	0069	3270	2624	0017902	0018	14494								
001		OBS	0014	0003	32700	2627			14465								
		STO	0020	-0046	3277	2635	0016798	0035	14444								
		OBS	0025	-0070	32859	2643			14435								
		STO	0030	-0070	3303	2657	0014783	0051	14438								
		OBS	0035	-0070	33088	2662			14440								
		OBS	0036	-0052	33088	2661			14448								
		OBS	0040	-0052	33130	2664			14450								
		OBS	0042	-0095	33135	2666			14430								
		STO	0050	-0095	3326	2676	0012890	0079	14433								
		OBS	0050	-0095	33260	2676			14433								
		OBS	0062	-0038	33301	2677			14462								
		OBS	0066	-0013	33378	2683			14475								
		STO	0075	-0019	3340	2685	0012080	0110	14474								
		OBS	0075	-0019	33404	2685			14474								
		OBS	0082	-0001	33551	2696			14486								
		OBS	0097	0001	33542	2695			14489								
		STO	0100	0025	3371	2707	0009973	0138	14503								
		OBS	0100	0025	33708	2707			14503								
		STD	0125	0092	3391	2720	0008812	0161	14540								
		STD	0150	0142	3408	2730	0007825	0182	14569								
		OBS	0150	0142	34085	2730			14569								
		STO	0200	0187	3434	2747	0006259	0217	14601								
		OBS	0200	0187	34339	2747			14601								
		OBS	0215	0219	34338	2745			14617								
		OBS	0227	0219	34372	2748			14620								
		OBS	0234	0279	34532	2755			14649								
		STO	0250	0281	3454	2756	0005530	0247	14653								
		STO	0300	0354	3470	2762	0005088	0273	14694								
		OBS	0300	0354	34700	2762			14694								
		OBS	0302	0359	34710	2762			14697								
		OBS	0303	0372	34752	2764			14703								
		OBS	0341	0410	34804	2764			14726								
		OBS	0393	0421	34842	2766			14740								
		STD	0400	0434	3491	2770	0004461	0321	14747								
		OBS	0400	0434	34910	2770			14747								
		STO	0500	0433	3491	2770	0004546	0366	14764								
		OBS	0520	0430	34912	2771			14766								
		OBS	0590	0409	34915	2773			14769								
		STO	0600	0407	3492	2773	0004315	0410	14769								
		OBS	0600	0407	34916	2773			14769								
		STD	0700	0401	3492	2774	0004330	0453	14784								
		STO	0800	0398	3492	2775	0004373	0497	14799								
		OBS	0800	0398	34919	2775			14799								
		OBS	0865	0397	34919	2775			14809								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEA-THER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4503 N	04853 W		149	58	05	12	210	1968	002	10167	0923	1	30	1	3		X1	0	3		0128

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S16	203	039	033	7	17	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10²	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOUND
		STD	0000	0091	3275	2627	0017632	0000	14503								
210		OBS	0000	0091	32750	2627			14503								
		STD	0010	0033	3279	2633	0016986	0017	14479								
		STD	0020	-0012	3286	2641	0016275	0033	14461								
		OBS	0025	-0030	32901	2645			14454								
		STD	0030	-0043	3296	2651	0015355	0049	14450								
		STD	0050	-0068	3318	2669	0013562	0078	14445								
001		OBS	0050	-0068	33185	2669			14445								
		STD	0075	-0035	3339	2684	0012140	0110	14467								
		OBS	0075	-0035	33387	2684			14467								
		STD	0100	0001	3358	2699	0010797	0139	14490								
		OBS	0100	0001	33584	2699			14490								
		STD	0125	0081	3386	2717	0009106	0164	14535								
		STD	0150	0138	3406	2729	0007977	0185	14567								
		OBS	0150	0138	34062	2729			14567								
		STD	0200	0181	3422	2738	0007111	0223	14596								
		OBS	0200	0181	34219	2738			14596								
		OBS	0219	0229	34389	2748			14623								
		OBS	0235	0231	34403	2749			14627								
		STD	0250	0289	3454	2755	0005598	0255	14656								
		OBS	0265	0330	34640	2759			14678								
		STD	0300	0364	3470	2761	0005185	0282	14699								
		OBS	0300	0364	34700	2761			14699								
		OBS	0352	0428	34855	2766			14736								
		STD	0400	0442	3486	2765	0004926	0332	14750								
		OBS	0400	0442	34860	2765			14750								
		STD	0500	0438	3491	2769	0004631	0380	14766								
		OBS	0500	0438	34907	2769			14766								
		STD	0600	0421	3490	2771	0004567	0426	14775								
		OBS	0600	0421	34903	2771			14775								
		OBS	0626	0408	34899	2772			14774								
		STD	0700	0400	3491	2773	0004399	0471	14783								
		STD	0800	0390	3492	2775	0004286	0514	14795								
		OBS	0800	0390	34918	2775			14795								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DUPT INDICA	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4503 N	048532W		149	58	05	12	227	1968	002	10168	0923	1	30	2	3		X1	0	3		0129

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	50	30	516	203	039	033	7	26	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	100
		STD	0000	0100	3253	2609	0019325	0000	14504								
227		OBS	0000	0100	32535	2609			14504								
		STD	0010	0032	3279	2633	0017023	0018	14479								
		STD	0020	-0025	3291	2645	0015840	0034	14456								
		OBS	0020	-0025	32910	2645			14456								
002		OBS	0025	-0050	32920	2647			14445								
		STD	0030	-0062	3297	2652	0015200	0050	14441								
		OBS	0030	-0062	32975	2652			14441								
		OBS	0040	-0062	33199	2670			14446								
		STD	0050	-0040	3327	2675	0013015	0078	14459								
		OBS	0050	-0040	33270	2675			14459								
		STD	0075	-0027	3338	2683	0012241	0109	14470								
		OBS	0075	-0027	33378	2683			14470								
		OBS	0079	-0027	33380	2683			14471								
		OBS	0080	0000	33400	2684			14484								
		STD	0100	0015	3376	2712	0009483	0137	14499								
		OBS	0100	0015	33765	2712			14499								
		STD	0125	0100	3396	2723	0008517	0159	14544								
		STD	0150	0140	3408	2731	0007815	0180	14568								
		OBS	0150	0140	34085	2731			14568								
		OBS	0170	0140	34143	2735			14572								
		OBS	0183	0180	34200	2737			14593								
		STD	0200	0185	3425	2740	0006915	0216	14599								
		OBS	0200	0185	34250	2740			14599								
		OBS	0220	0230	34370	2747			14623								
		OBS	0230	0230	34385	2748			14625								
		STD	0250	0278	3450	2753	0005798	0248	14651								
		STD	0300	0342	3465	2759	0005357	0276	14689								
		OBS	0300	0342	34648	2759			14689								
		OBS	0310	0345	34650	2759			14692								
		OBS	0360	0430	34825	2764			14738								
		STD	0400	0430	3488	2768	0004645	0326	14745								
		OBS	0400	0430	34880	2768			14745								
		OBS	0420	0430	34902	2770			14749								
		OBS	0425	0436	34903	2769			14752								
		STD	0500	0436	3491	2770	0004584	0372	14765								
		OBS	0500	0436	34910	2770			14765								
		STD	0600	0420	3492	2772	0004432	0417	14775								
		OBS	0600	0420	34920	2772			14775								
		STD	0700	0400	3492	2774	0004310	0461	14783								
		OBS	0700	0400	34918	2774			14783								
		STD	0800	0394	3492	2775	0004347	0504	14797								
		OBS	0800	0394	34917	2775			14797								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4501 N	04853 W		149	58	05	12	239	1968	002	10169	0905	1	30	1	3		X2	0	3		0130

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S14	203	039	033	7	20	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0165	3274	2621	0018148	0000	14536								
239		OBS	0000	0165	32742	2621			14536								
		STD	0010	0087	3268	2621	0018165	0018	14502								
		OBS	0010	0087	32677	2621			14502								
		STD	0020	-0036	3289	2644	0015948	0035	14450								
001		OBS	0020	-0036	32890	2644			14450								
		OBS	0025	-0049	33090	2661			14448								
		STD	0030	-0049	3312	2663	0014134	0050	14449								
		OBS	0030	-0049	33120	2663			14449								
		OBS	0040	-0063	33160	2667			14445								
		STD	0050	-0058	3330	2678	0012714	0077	14451								
		OBS	0050	-0058	33301	2678			14451								
		STD	0075	-0020	3344	2688	0011800	0107	14474								
		OBS	0075	-0020	33440	2688			14474								
		STD	0100	0042	3376	2711	0009644	0134	14511								
		OBS	0100	0042	33763	2711			14511								
		STD	0125	0097	3393	2721	0008696	0157	14543								
		STD	0150	0145	3409	2730	0007844	0178	14570								
		OBS	0150	0145	34086	2730			14570								
		STD	0200	0220	3436	2747	0006357	0213	14616								
		OBS	0200	0220	34360	2747			14616								
		OBS	0222	0234	34380	2747			14626								
		STD	0250	0319	3457	2755	0005654	0243	14670								
		OBS	0270	0360	34679	2759			14692								
		STD	0300	0389	3478	2765	0004827	0269	14710								
		OBS	0300	0389	34783	2765			14710								
		OBS	0340	0439	34860	2765			14739								
		STD	0400	0440	3489	2768	0004682	0317	14750								
		OBS	0400	0440	34890	2768			14750								
		STD	0500	0424	3491	2771	0004436	0363	14760								
		OBS	0500	0424	34912	2771			14760								
		STD	0600	0413	3492	2773	0004377	0407	14772								
		OBS	0600	0413	34916	2773			14772								
		STD	0700	0401	3491	2774	0004365	0450	14783								
		OBS	0700	0401	34913	2774			14783								
		STD	0800	0396	3491	2774	0004413	0494	14798								
		OBS	0800	0396	34911	2774			14798								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4501 N	04853 W		149	58	05	13	012	1968	002	10170	0860	1	30	2	3		X2	0	3		0131

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S19	210	039	033	7	25	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	$\Sigma\Delta D$ DYN. M. $x 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	°C
		STD	0000	0158	3273	2621	0018148	0000	14533								
012		OBS	0000	0158	32735	2621			14533								
		STD	0010	-0070	3272	2632	0017137	0017	14431								
		OBS	0010	-0070	32720	2632			14431								
		STD	0020	-0046	3274	2633	0017034	0034	14444								
001		OBS	0025	-0040	32792	2637			14448								
		STD	0030	-0042	3291	2646	0015772	0051	14449								
		OBS	0040	-0047	33080	2660			14451								
		STD	0050	-0065	3316	2667	0013762	0080	14446								
		OBS	0050	-0065	33160	2667			14446								
		OBS	0060	-0065	33220	2672			14448								
		STD	0075	-0020	3338	2683	0012260	0113	14474								
		OBS	0075	-0020	33380	2683			14474								
		OBS	0088	-0005	33410	2685			14483								
		STD	0100	0020	3364	2702	0010459	0141	14500								
		OBS	0100	0020	33640	2702			14500								
		STD	0125	0098	3391	2719	0008886	0165	14543								
		OBS	0130	0105	33938	2721			14547								
		STD	0150	0107	3400	2726	0008234	0187	14552								
		OBS	0150	0107	34000	2726			14552								
		OBS	0190	0118	34038	2728			14564								
		STD	0200	0140	3413	2734	0007521	0226	14577								
		OBS	0200	0140	34125	2734			14577								
		OBS	0240	0230	34380	2747			14627								
		STD	0250	0230	3441	2749	0006109	0260	14629								
		OBS	0258	0230	34440	2752			14631								
		STD	0300	0390	3478	2764	0004854	0288	14711								
		OBS	0300	0390	34780	2764			14711								
		OBS	0338	0440	34865	2766			14739								
		STD	0400	0445	3490	2768	0004660	0335	14752								
		OBS	0400	0445	34900	2768			14752								
		OBS	0410	0440	34910	2769			14752								
		OBS	0440	0440	34910	2769			14757								
		STD	0500	0430	3491	2771	0004479	0381	14762								
		OBS	0500	0430	34915	2771			14762								
		STD	0600	0415	3492	2773	0004380	0425	14773								
		OBS	0600	0415	34919	2773			14773								
		OBS	0627	0405	34916	2774			14773								
		STD	0700	0403	3492	2774	0004359	0469	14784								
		OBS	0700	0403	34916	2774			14784								
		STD	0800	0395	3491	2774	0004411	0513	14797								
		OBS	0800	0395	34910	2774			14797								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° °1/10	DATA MODE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4502 N	04851 W		149	58	05	13	030	1968	002	10171	0942	1	30	2	4		X2	0	3		0132

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	S0	31	S10	213	039	033	6	22	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SOC
		STD	0000	0179	3276	2622	0018112	0000	14543								
030		OBS	0000	0179	32758	2622			14543								
		OBS	0006	0179	32760	2622			14544								
		STD	0010	0020	3265	2622	0018045	0018	14471								
001		OBS	0011	-0007	32640	2623			14459								
		OBS	0019	-0049	32854	2642			14444								
		STD	0020	-0049	3288	2644	0015984	0035	14444								
		OBS	0025	-0051	32987	2653			14446								
		STD	0030	-0048	3308	2660	0014433	0050	14449								
		OBS	0045	-0041	33143	2665			14456								
		STD	0050	-0061	3309	2661	0014314	0079	14446								
		OBS	0050	-0061	33090	2661			14446								
		OBS	0066	-0061	33255	2675			14451								
		STD	0075	-0032	3334	2680	0012511	0112	14467								
		OBS	0075	-0032	33340	2680			14467								
		STD	0100	0029	3374	2709	0009767	0140	14505								
		OBS	0100	0029	33737	2709			14505								
		STD	0125	0082	3374	2707	0010044	0165	14533								
		OBS	0147	0108	33928	2720			14551								
		STD	0150	0110	3397	2723	0008506	0188	14553								
		OBS	0150	0110	33967	2723			14553								
		STD	0200	0114	3404	2729	0007966	0229	14564								
		OBS	0200	0114	34043	2729			14564								
		STD	0250	0230	3440	2749	0006162	0264	14629								
		OBS	0250	0230	34400	2749			14629								
		STD	0300	0332	3463	2758	0005368	0293	14684								
		OBS	0300	0332	34634	2758			14684								
		OBS	0375	0433	34868	2767			14742								
		OBS	0391	0431	34870	2767			14744								
		STD	0400	0441	3490	2768	0004629	0343	14750								
		OBS	0400	0441	34898	2768			14750								
		OBS	0472	0445	34904	2768			14764								
		STD	0500	0438	3491	2769	0004623	0389	14766								
		STD	0600	0415	3492	2773	0004389	0435	14773								
		OBS	0600	0415	34918	2773			14773								
		OBS	0670	0401	34917	2774			14778								
		STD	0700	0400	3492	2774	0004328	0478	14783								
		STD	0800	0398	3491	2774	0004444	0522	14799								
		OBS	0800	0398	34910	2774			14799								

REFERENCE CTRY CODE	REFERENCE ID. ND.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE ND.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NDDC STATION NUMBER
318039		EV	4503 N	048532W		149	58	05	13	070	1968	002	10172	0914	1	32	2	3		X2	0	3		0133

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	34	S10	213	017	017	5	22	

MESSENGR TIME OF HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	ΣΔD DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCO
		STD	0000	0140	3279	2627	0017605	0000	14526								
070		OBS	0000	0140	32792	2627			14526								
		STD	0010	0010	3271	2628	0017511	0017	14467								
		OBS	0010	0010	32712	2628			14467								
		STD	0020	-0060	3295	2650	0015368	0034	14440								
001		OBS	0020	-0060	32954	2650			14440								
		OBS	0025	-0092	32970	2653			14426								
		STD	0030	-0057	3324	2673	0013193	0048	14447								
		OBS	0030	-0057	33240	2673			14447								
		OBS	0040	-0027	33240	2672			14463								
		STD	0050	-0046	3329	2677	0012861	0074	14456								
		OBS	0050	-0046	33288	2677			14456								
		STD	0075	-0010	3352	2694	0011233	0104	14480								
		OBS	0075	-0010	33520	2694			14480								
		STD	0100	0034	3366	2703	0010382	0131	14506								
		OBS	0100	0034	33660	2703			14506								
		OBS	0110	0035	33820	2716			14511								
		STD	0125	0099	3395	2722	0008562	0155	14544								
		OBS	0125	0099	33950	2722			14544								
		STD	0150	0118	3405	2729	0007932	0175	14558								
		OBS	0150	0118	34049	2729			14558								
		OBS	0170	0120	34120	2735			14563								
		STD	0200	0187	3428	2743	0006700	0212	14600								
		OBS	0200	0187	34280	2743			14600								
		STD	0250	0241	3440	2748	0006259	0244	14633								
		OBS	0282	0319	34600	2757			14675								
		STD	0300	0378	3475	2764	0004917	0272	14705								
		OBS	0300	0378	34755	2764			14705								
		OBS	0312	0407	34795	2764			14720								
		STD	0400	0440	3490	2768	0004610	0320	14750								
		OBS	0400	0440	34899	2768			14750								
		STD	0500	0430	3491	2770	0004523	0366	14762								
		OBS	0500	0430	34910	2770			14762								
		STD	0600	0420	3492	2772	0004432	0410	14775								
		OBS	0600	0420	34920	2772			14775								
		STD	0700	0405	3492	2774	0004354	0454	14785								
		OBS	0700	0405	34920	2774			14785								
		STD	0800	0394	3492	2775	0004329	0498	14797								
		OBS	0800	0394	34919	2775			14797								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
	318039	EV	4501 N	04853 W		149	58	05	13	110	1968	002	10173	0878	1	32	0	3		X4	0	3		0134

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S02	213	017	017	2	26	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0132	3276	2625	0017786	0000	14522								
110		OBS	0000	0132	32762	2625			14522								
		STD	0010	0077	3276	2628	0017458	0017	14499								
		STD	0020	0013	3276	2632	0017128	0034	14471								
		OBS	0025	-0022	32765	2634			14456								
		STD	0030	-0068	3280	2638	0016538	0051	14436								
001		OBS	0035	-0099	32850	2643			14423								
		STD	0050	-0099	3313	2666	0013838	0082	14429								
		OBS	0050	-0099	33135	2666			14429								
		OBS	0059	-0039	33290	2677			14461								
		OBS	0070	-0039	33310	2678			14463								
		STD	0075	-0030	3332	2679	0012674	0115	14468								
		OBS	0075	-0030	33320	2679			14468								
		OBS	0093	-0014	33475	2690			14481								
		OBS	0098	0023	33540	2694			14499								
		STD	0100	0031	3356	2695	0011130	0145	14504								
		OBS	0100	0031	33560	2695			14504								
		OBS	0118	0013	33980	2730			14504								
		STD	0125	0041	3399	2729	0007893	0168	14518								
		STD	0150	0125	3408	2731	0007737	0188	14561								
		OBS	0150	0125	34082	2731			14561								
		OBS	0170	0172	34205	2738			14587								
		STD	0200	0184	3425	2741	0006905	0224	14598								
		OBS	0200	0184	34250	2741			14598								
		OBS	0231	0215	34321	2744			14618								
		STD	0250	0267	3443	2748	0006285	0257	14645								
		OBS	0265	0308	34600	2758			14668								
		OBS	0269	0351	34660	2759			14688								
		OBS	0285	0360	34680	2759			14694								
		STD	0300	0404	3483	2767	0004658	0285	14717								
		OBS	0300	0404	34827	2767			14717								
		OBS	0330	0424	34860	2767			14731								
		STD	0400	0428	3486	2767	0004778	0332	14744								
		OBS	0400	0428	34859	2767			14744								
		STD	0500	0438	3490	2769	0004667	0379	14766								
		OBS	0500	0438	34902	2769			14766								
		STD	0600	0429	3491	2771	0004606	0426	14779								
		OBS	0600	0429	34911	2771			14779								
		STD	0700	0408	3489	2771	0004617	0472	14786								
		OBS	0700	0408	34890	2771			14786								
		OBS	0772	0402	34905	2773			14796								
		STD	0800	0398	3492	2774	0004382	0517	14799								
		OBS	0800	0398	34918	2774			14799								

REFERENCE CRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	48340N	046090W		149	86	05	14	139	1968	002	10174	1189	1	04	2	2		X6	0	3		0135

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	05	S24	058	039	033	6	23	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0131	3313	2655	0014988	0000	14526								
139		OBS	0000	0131	33129	2655			14526								
		OBS	0008	0109	33114	2655			14518								
		STD	0010	0109	3316	2659	0014590	0014	14519								
002		OBS	0010	0109	33164	2659			14519								
		STD	0020	0110	3379	2709	0009817	0027	14529								
		OBS	0020	0110	33792	2709			14529								
		OBS	0025	0111	33915	2719			14532								
		STD	0030	0115	3404	2728	0007994	0035	14537								
		OBS	0030	0115	34036	2728			14537								
		STD	0050	0147	3422	2741	0006782	0050	14557								
		OBS	0050	0147	34224	2741			14557								
		OBS	0072	0193	34510	2761			14585								
		STD	0075	0219	3456	2763	0004765	0065	14597								
		OBS	0075	0219	34562	2763			14597								
		STD	0100	0298	3464	2763	0004816	0077	14637								
		OBS	0100	0298	34645	2763			14637								
		OBS	0110	0298	34645	2763			14639								
		STD	0125	0328	3468	2763	0004816	0089	14654								
		OBS	0125	0328	34684	2763			14654								
		STD	0150	0365	3476	2766	0004589	0100	14675								
		OBS	0150	0365	34764	2766			14675								
		STD	0200	0379	3482	2769	0004324	0123	14690								
		OBS	0200	0379	34824	2769			14690								
		OBS	0231	0382	34819	2768			14697								
		STD	0250	0395	3485	2769	0004344	0144	14706								
		STD	0300	0421	3491	2771	0004222	0166	14726								
		OBS	0300	0421	34909	2771			14726								
		STD	0400	0431	3493	2772	0004288	0208	14747								
		OBS	0400	0431	34929	2772			14747								
		STD	0500	0412	3492	2773	0004251	0251	14755								
		OBS	0500	0412	34919	2773			14755								
		STD	0600	0397	3491	2774	0004211	0293	14765								
		OBS	0600	0397	34914	2774			14765								
		STD	0700	0387	3491	2775	0004198	0335	14778								
		OBS	0700	0387	34914	2775			14778								
		STD	0800	0380	3491	2776	0004204	0377	14791								
		OBS	0800	0380	34914	2776			14791								
		STD	0900	0378	3492	2776	0004244	0420	14807								
		OBS	0900	0378	34917	2776			14807								
		STD	1000	0373	3492	2778	0004222	0462	14822								
		OBS	1000	0373	34924	2778			14822								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	48190N	046095W		149	86	05	14	158	1968	002	10175	1244	1	03	3	3		X6	0	3		0136

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	05	S27	017	050	050	6	24	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	$\Sigma\Delta D$ DYN. M. $x 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0160	3330	2666	0013857	0000	14542								
158		OBS	0000	0160	33302	2666			14542								
		STD	0010	0160	3330	2667	0013850	0013	14543								
		OBS	0010	0160	33303	2667			14543								
002		OBS	0019	0160	33304	2667			14545								
		STD	0020	0151	3330	2667	0013806	0027	14541								
		OBS	0020	0151	33302	2667			14541								
		OBS	0025	0141	33324	2669			14538								
		STD	0030	0131	3336	2673	0013245	0041	14534								
		OBS	0030	0131	33359	2673			14534								
		OBS	0040	0066	33444	2684			14508								
		STD	0050	0066	3385	2716	0009128	0063	14515								
		OBS	0050	0066	33849	2716			14515								
		STD	0075	0153	3422	2741	0006844	0083	14564								
		OBS	0075	0153	34222	2741			14564								
		STD	0100	0201	3439	2751	0005918	0099	14591								
		OBS	0100	0201	34392	2751			14591								
		STD	0125	0292	3464	2763	0004787	0112	14638								
		OBS	0125	0292	34644	2763			14638								
		STD	0150	0339	3470	2763	0004786	0124	14663								
		OBS	0150	0339	34704	2763			14663								
		OBS	0164	0339	34714	2764			14666								
		OBS	0170	0381	34804	2767			14686								
		OBS	0188	0386	34809	2767			14691								
		STD	0200	0411	3484	2767	0004529	0148	14704								
		OBS	0200	0411	34841	2767			14704								
		STD	0250	0445	3490	2768	0004482	0170	14727								
		OBS	0250	0445	34902	2768			14727								
		STD	0300	0460	3492	2768	0004547	0193	14742								
		OBS	0300	0460	34924	2768			14742								
		STD	0400	0456	3493	2769	0004554	0238	14757								
		OBS	0400	0456	34931	2769			14757								
		STD	0500	0437	3492	2771	0004505	0284	14765								
		OBS	0500	0437	34923	2771			14765								
		STD	0600	0416	3491	2772	0004444	0328	14773								
		OBS	0600	0416	34912	2772			14773								
		STD	0700	0402	3491	2773	0004393	0373	14784								
		OBS	0700	0402	34910	2773			14784								
		STD	0800	0391	3491	2774	0004377	0416	14796								
		OBS	0800	0391	34908	2774			14796								
		STD	0900	0384	3491	2775	0004364	0460	14810								
		OBS	0900	0384	34911	2775			14810								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NDOC STATION NUMBER
318039		EV	47585N	046095W		149	76	05	14	180	1968	002	10176	0969	1	06	5	4		X6	0	3		0137

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	05	S33	942	044	044	6	26	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0183	3322	2659	0014608	0000	14551								
180		OBS	0000	0183	33224	2659			14551								
		STD	0010	0123	3321	2662	0014292	0014	14526								
		OBS	0010	0123	33214	2662			14526								
		STD	0020	0081	3335	2675	0013015	002B	14510								
003		OBS	0020	0081	33349	2675			14510								
		OBS	0025	0040	33324	2676			14492								
		STD	0030	0032	3347	26B8	0011799	0040	14491								
		OBS	0030	0032	33474	2688			14491								
		OBS	0035	-0009	33469	2690			14473								
		OBS	0039	0011	33564	2696			14484								
		OBS	0048	0009	33764	2713			14488								
		STD	0050	0038	3393	2725	0008320	0060	14504								
		OBS	0050	0038	33934	2725			14504								
		STD	0075	0259	3452	2756	0005422	0077	14614								
		OBS	0075	0259	34518	2756			14614								
		OBS	0076	0319	34584	2756			14641								
		OBS	0086	0354	34625	2756			14658								
		STD	0100	0359	3462	2755	0005544	0091	14663								
		OBS	0100	0359	34624	2755			14663								
		OBS	0103	0400	34680	2755			14681								
		STD	0125	0418	3474	2759	0005250	0105	14693								
		OBS	0125	0418	34744	2759			14693								
		STD	0150	0431	3482	2763	0004874	0117	14704								
		OBS	0150	0431	34816	2763			14704								
		STD	0200	0447	3486	2765	0004781	0141	14719								
		OBS	0200	0447	34859	2765			14719								
		STD	0250	0445	3489	2768	0004545	0165	14727								
		OBS	0250	0445	34894	276B			14727								
		STD	0300	0446	3489	2767	0004617	0188	14736								
		OBS	0300	0446	34893	2767			14736								
		STD	0400	0428	3489	2769	0004527	0233	14745								
		OBS	0400	0428	34892	2769			14745								
		STD	0500	0426	3491	2771	0004456	0278	14761								
		OBS	0500	0426	34913	2771			14761								
		STD	0600	0410	3491	2772	0004417	0323	14771								
		OBS	0600	0410	34906	2772			14771								
		OBS	0629	0397	34890	2772			14770								
		STD	0700	0391	3489	2773	0004401	0367	14779								
		OBS	0700	0391	34892	2773			14779								
		STD	0800	0389	3489	2773	0004462	0411	14795								
		OBS	0800	0389	34893	2773			14795								
		OBS	0850	0386	34894	2774			14802								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47400N	046120W		149	76	05	17	118	1968	002	10177	1079	1	20	4	3		X4	0	3		0138

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	19	S20	105	039	039	6	23	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0136	3328	2667	0013848	0000	14531								
118		OBS	0000	0136	33283	2667			14531								
		STD	0010	0135	3328	2667	0013822	0013	14532								
		OBS	0010	0135	33285	2667			14532								
		STD	0020	0118	3328	2667	0013768	0027	14526								
002		OBS	0020	0118	33279	2667			14526								
		OBS	0025	0104	33285	2669			14520								
		STD	0030	0082	3333	2674	0013133	0041	14512								
		OBS	0030	0082	33334	2674			14512								
		OBS	0045	0064	33569	2694			14510								
		STD	0050	0094	3385	2715	0009249	0063	14528								
		OBS	0050	0094	33854	2715			14528								
		STD	0075	0169	3421	2739	0007037	0083	14571								
		OBS	0075	0169	34212	2739			14571								
		STD	0100	0230	3437	2746	0006322	0100	14604								
		OBS	0100	0230	34369	2746			14604								
		STD	0125	0271	3452	2755	0005573	0115	14628								
		OBS	0125	0271	34516	2755			14628								
		STD	0150	0328	3462	2758	0005304	0129	14658								
		OBS	0150	0328	34622	2758			14658								
		OBS	0165	0345	34654	2759			14668								
		OBS	0181	0338	34644	2759			14667								
		STD	0200	0361	3471	2762	0004981	0154	14681								
		OBS	0200	0361	34712	2762			14681								
		STD	0250	0428	3485	2766	0004661	0178	14720								
		OBS	0250	0428	34854	2766			14720								
		STD	0300	0456	3490	2767	0004652	0202	14740								
		OBS	0300	0456	34904	2767			14740								
		STD	0400	0447	3491	2769	0004599	0248	14753								
		OBS	0400	0447	34911	2769			14753								
		STD	0500	0433	3491	2770	0004518	0293	14764								
		OBS	0500	0433	34915	2770			14764								
		STD	0600	0418	3491	2772	0004483	0338	14774								
		OBS	0600	0418	34910	2772			14774								
		STD	0700	0396	3490	2773	0004383	0383	14781								
		OBS	0700	0396	34902	2773			14781								
		STD	0800	0385	3490	2774	0004356	0426	14793								
		OBS	0800	0385	34901	2774			14793								
		STD	0900	0378	3490	2775	0004360	0470	14807								
		OBS	0900	0378	34902	2775			14807								
		STD	1000	0371	3491	2777	0004297	0513	14821								
		OBS	1000	0371	34911	2777			14821								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47220N	046130W		149	76	05	17	141	1968	002	10178	0494	1	20	3	3		X4	0	3		0139

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	21	S17	095	044	039	7	26	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCO
		STD	0000	0104	3325	2666	0013930	0000	14516								
141		OBS	0000	0104	33247	2666			14516								
		STD	0010	0102	3331	2671	0013441	0013	14517								
		OBS	0010	0102	33309	2671			14517								
		STD	0020	0104	3337	2675	0013017	0026	14521								
001		OBS	0020	0104	33366	2675			14521								
		OBS	0025	0104	33368	2675			14522								
		STD	0030	0104	3337	2676	0012972	0039	14523								
		OBS	0030	0104	33372	2676			14523								
		OBS	0035	0104	33385	2677			14524								
		OBS	0048	0037	33683	2705			14499								
		STD	0050	0070	3375	2708	0009932	0062	14516								
		OBS	0050	0070	33746	2708			14516								
		OBS	0073	0416	34457	2736			14680								
		STD	0075	0409	3445	2736	0007291	0084	14677								
		OBS	0075	0409	34454	2736			14677								
		OBS	0082	0171	34234	2740			14573								
		STD	0100	0210	3430	2743	0006668	0101	14594								
		OBS	0100	0210	34303	2743			14594								
		STD	0125	0266	3445	2750	0006031	0117	14624								
		OBS	0125	0266	34449	2750			14624								
		STD	0150	0301	3453	2753	0005717	0132	14645								
		OBS	0150	0301	34534	2753			14645								
		STD	0200	0356	3466	2758	0005348	0160	14678								
		OBS	0200	0356	34657	2758			14678								
		OBS	0226	0365	34677	2759			14687								
		OBS	0238	0403	34789	2764			14706								
		STD	0250	0402	3476	2762	0005058	0186	14707								
		OBS	0250	0402	34764	2762			14707								
		OBS	0262	0422	34827	2765			14719								
		OBS	0280	0417	34809	2764			14719								
		STD	0300	0434	3485	2766	0004779	0210	14730								
		OBS	0300	0434	34854	2766			14730								
		OBS	0336	0454	34894	2767			14745								
		OBS	0380	0455	34900	2767			14753								
		STD	0400	0438	3488	2768	0004698	0258	14749								
		OBS	0400	0438	34885	2768			14749								
		OBS	0430	0438	34912	2770			14754								
		OBS	0450	0416	34909	2772			14748								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MD	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47000N	046100W		149	76	05	17	161	1968	002	10179	0348	1	21	4	3		X2	0	3		0140

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S17	129	067	056	7	23	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ△D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	S C
		STD	0000	0553	3380	2669	0013658	0000	14716								
161		OBS	0000	0553	33801	2669			14716								
		STD	0010	0561	3382	2669	0013625	0013	14721								
		OBS	0010	0561	33819	2669			14721								
		STD	0020	0719	3422	2680	0012577	0026	14791								
001		OBS	0020	0719	34224	2680			14791								
		OBS	0025	0847	34450	2679			14844								
		STD	0030	0855	3444	2677	0012864	0039	14848								
		OBS	0030	0855	34445	2677			14848								
		STD	0050	0860	3451	2682	0012477	0064	14854								
		OBS	0050	0860	34512	2682			14854								
		OBS	0056	0862	34515	2682			14856								
		STD	0075	0939	3478	2691	0011723	0095	14891								
		OBS	0075	0939	34784	2691			14891								
		OBS	0078	0943	34814	2692			14893								
		OBS	0088	0914	34822	2698			14884								
		STD	0100	0799	3465	2702	0010626	0123	14841								
		OBS	0100	0799	34654	2702			14841								
		OBS	0101	0791	34634	2702			14838								
		OBS	0109	0807	34709	2706			14846								
		OBS	0112	0780	34663	2706			14836								
		STD	0125	0786	3469	2707	0010180	0149	14840								
		OBS	0125	0786	34694	2707			14840								
		OBS	0138	0798	34783	2713			14848								
		OBS	0145	0825	34874	2716			14861								
		STD	0150	0741	3473	2717	0009352	0173	14828								
		OBS	0150	0741	34726	2717			14828								
		OBS	0152	0786	34784	2715			14846								
		STD	0200	0690	3482	2731	0008026	0216	14817								
		OBS	0200	0690	34822	2731			14817								
		STD	0250	0580	3481	2745	0006729	0253	14781								
		OBS	0250	0580	34814	2745			14781								
		OBS	0270	0525	34804	2751			14762								
		STD	0300	0514	3483	2755	0005852	0285	14763								
		OBS	0300	0514	34832	2755			14763								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47:50N	046350W		149	76	05	17	176	1968	002	10180	0421	1	21	4	3		X2	0	3		0141

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S14	125	067	056	6	23	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	0483	3360	2661	0014382	0000	14684								
176		OBS	0000	0483	33602	2661			14684								
		STD	0010	0483	3360	2661	0014392	0014	14686								
		OBS	0010	0483	33602	2661			14686								
		STD	0020	0483	3361	2661	0014366	0028	14688								
001		OBS	0020	0483	33606	2661			14688								
		OBS	0025	0483	33605	2661			14689								
		STD	0030	0483	3361	2661	0014367	0043	14689								
		OBS	0030	0483	33608	2661			14689								
		STD	0050	0493	3365	2664	0014180	0071	14697								
		OBS	0050	0493	33650	2664			14697								
		OBS	0056	0605	34008	2678			14749								
		OBS	0065	0333	33834	2695			14635								
		STD	0075	0383	3400	2703	0010445	0102	14660								
		OBS	0075	0383	34000	2703			14660								
		OBS	0082	0328	33910	2701			14637								
		OBS	0093	0416	34173	2713			14679								
		STD	0100	0415	3419	2715	0009373	0127	14680								
		OBS	0100	0415	34188	2715			14680								
		STD	0125	0442	3436	2726	0008358	0149	14698								
		OBS	0125	0442	34363	2726			14698								
		OBS	0140	0555	34633	2734			14751								
		STD	0150	0473	3452	2735	0007520	0169	14717								
		OBS	0150	0473	34523	2735			14717								
		OBS	0160	0567	34763	2743			14761								
		OBS	0181	0477	34741	2752			14727								
		STD	0200	0515	3479	2751	0006055	0203	14746								
		OBS	0200	0515	34790	2751			14746								
		OBS	0217	0509	34782	2751			14747								
		OBS	0237	0478	34763	2753			14737								
		STD	0250	0499	3485	2758	0005459	0232	14749								
		OBS	0250	0499	34854	2758			14749								
		OBS	0280	0500	34868	2759			14754								
		STD	0300	0478	3491	2765	0004883	0257	14749								
		OBS	0300	0478	34906	2765			14749								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	CRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR,1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47050N	046490W		149	76	05	17	189	1968	002	10181	1207	1	20	4	3		X2	0	3		0142

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S12	125	022	022	6	27	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0070	3318	2663	0014219	0000	14500								
189		OBS	0000	0070	33183	2663			14500								
		STD	0010	0070	3318	2663	0014209	0014	14501								
		OBS	0010	0070	33184	2663			14501								
		STD	0020	0069	3319	2663	0014172	0028	14503								
002		OBS	0020	0069	33188	2663			14503								
		OBS	0025	0069	33193	2663			14503								
		STD	0030	0069	3320	2664	0014063	0042	14504								
		OBS	0030	0069	33203	2664			14504								
		STD	0050	0069	3324	2667	0013772	0070	14508								
		OBS	0050	0069	33241	2667			14508								
		OBS	0065	0049	33483	2688			14505								
		STD	0075	0080	3397	2725	0008264	0097	14527								
		OBS	0075	0080	33973	2725			14527								
		OBS	0083	0137	34098	2732			14556								
		STD	0100	0145	3413	2734	0007508	0117	14563								
		OBS	0100	0145	34128	2734			14563								
		OBS	0116	0137	34143	2735			14562								
		STD	0125	0177	3430	2745	0006425	0135	14584								
		OBS	0125	0177	34303	2745			14584								
		STD	0150	0272	3448	2752	0005859	0150	14632								
		OBS	0150	0272	34481	2752			14632								
		STD	0200	0326	3460	2757	0005449	0178	14665								
		OBS	0200	0326	34605	2757			14665								
		OBS	0219	0399	34711	2758			14700								
		OBS	0227	0363	34703	2761			14686								
		STD	0250	0453	3481	2760	0005233	0205	14729								
		OBS	0250	0453	34814	2760			14729								
		OBS	0279	0413	34763	2761			14717								
		STD	0300	0493	3494	2766	0004777	0230	14756								
		OBS	0300	0493	34943	2766			14756								
		STD	0400	0481	3495	2768	0004721	0277	14768								
		OBS	0400	0481	34948	2768			14768								
		STD	0500	0450	3493	2770	0004610	0324	14771								
		OBS	0500	0450	34929	2770			14771								
		STD	0600	0430	3492	2772	0004518	0370	14779								
		OBS	0600	0430	34924	2772			14779								
		STD	0700	0402	3491	2774	0004375	0414	14784								
		OBS	0700	0402	34913	2774			14784								
		STD	0800	0383	3489	2774	0004424	0458	14792								
		OBS	0800	0383	34889	2774			14792								
		STD	0900	0380	3490	2775	0004373	0502	14808								
		OBS	0900	0380	34903	2775			14808								
		STD	1000	0374	3490	2776	0004384	0546	14822								
		OBS	1000	0374	34904	2776			14822								
		STD	1100	0370	3490	2776	0004424	0590	14837								
		OBS	1100	0370	34904	2776			14837								

REFERENCE CTRY CODE	REFERENCE IQ. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47050N	047030W		149	77	05	17	202	1968	002	10182	1189	1	20	4	3		X2	0	3		0143

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S12	132	028	028	7	22	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	Σ△Q DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0073	3316	2661	0014391	0000	14501								
202		OBS	0000	0073	33163	2661			14501								
		STD	0010	0069	3317	2661	0014327	0014	14501								
		OBS	0010	0069	33168	2661			14501								
		STD	0020	0068	3317	2662	0014281	0028	14502								
002		OBS	0020	0068	33173	2662			14502								
		OBS	0025	0066	33183	2663			14502								
		STD	0030	0061	3319	2663	0014143	0042	14501								
		OBS	0030	0061	33186	2663			14501								
		STD	0050	0061	3320	2665	0014033	0071	14504								
		OBS	0050	0061	33201	2665			14504								
		OBS	0065	0028	33453	2687			14495								
		STD	0075	0078	3397	2726	0008255	0098	14527								
		OBS	0075	0078	33973	2726			14527								
		STD	0100	0193	3426	2741	0006835	0117	14586								
		OBS	0100	0193	34263	2741			14586								
		STD	0125	0234	3442	2750	0005957	0133	14610								
		OBS	0125	0234	34423	2750			14610								
		STD	0150	0273	3450	2753	0005715	0148	14632								
		OBS	0150	0273	34501	2753			14632								
		STD	0200	0344	3465	2759	0005260	0175	14673								
		OBS	0200	0344	34653	2759			14673								
		STD	0250	0420	3479	2762	0005042	0201	14715								
		OBS	0250	0420	34791	2762			14715								
		STD	0300	0441	3486	2765	0004820	0226	14733								
		OBS	0300	0441	34858	2765			14733								
		STD	0400	0455	3491	2768	0004660	0273	14756								
		OBS	0400	0455	34915	2768			14756								
		STD	0500	0451	3492	2769	0004665	0320	14771								
		OBS	0500	0451	34923	2769			14771								
		STD	0600	0438	3492	2770	0004637	0366	14782								
		OBS	0600	0438	34921	2770			14782								
		STD	0700	0416	3492	2773	0004444	0412	14790								
		OBS	0700	0416	34925	2773			14790								
		STD	0800	0397	3491	2774	0004442	0456	14798								
		OBS	0800	0397	34908	2774			14798								
		STD	0900	0387	3491	2775	0004406	0500	14811								
		OBS	0900	0387	34910	2775			14811								
		STD	1000	0378	3492	2777	0004323	0544	14824								
		OBS	1000	0378	34918	2777			14824								
		OBS	1080	0371	34926	2778			14834								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47050N	047180W		149	77	05	17	215	1968	002	10183	0640	1	21	4	3		X2	0	3		0144

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S12	129	028	028	7	24	

MESSENGR. TIME OR HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0050	3272	2627	0017623	0000	14484								
215		OBS	0000	0050	32723	2627			14484								
		STD	0010	0047	3273	2627	0017566	0017	14485								
		OBS	0010	0047	32728	2627			14485								
		STD	0020	0042	3273	2628	0017500	0035	14484								
001		OBS	0020	0042	32733	2628			14484								
		OBS	0025	0042	32734	2628			14485								
		STD	0030	0041	3273	2628	0017480	0052	14485								
		OBS	0030	0041	32735	2628			14485								
		OBS	0040	0040	32735	2628			14486								
		STD	0050	0008	3272	2628	0017443	0087	14473								
		OBS	0050	0008	32718	2628			14473								
		OBS	0059	-0077	32810	2639			14437								
		OBS	0071	-0077	33273	2677			14445								
		STD	0075	-0037	3332	2679	0012627	0125	14465								
		OBS	0075	-0037	33322	2679			14465								
		STD	0100	0068	3376	2709	0009805	0153	14523								
		OBS	0100	0068	33761	2709			14523								
		STD	0125	0069	3385	2716	0009111	0176	14529								
		OBS	0125	0069	33853	2716			14529								
		STD	0150	0105	3403	2728	0007999	0198	14552								
		OBS	0150	0105	34030	2728			14552								
		OBS	0172	0207	34296	2742			14604								
		STD	0200	0207	3431	2744	0006593	0234	14609								
		OBS	0200	0207	34315	2744			14609								
		STD	0250	0305	3455	2755	0005672	0265	14663								
		OBS	0250	0305	34554	2755			14663								
		STD	0300	0387	3473	2761	0005185	0292	14709								
		OBS	0300	0387	34732	2761			14709								
		OBS	0331	0398	34796	2765			14719								
		OBS	0348	0442	34900	2768			14742								
		OBS	0361	0419	34854	2767			14734								
		STD	0400	0418	3487	2768	0004607	0341	14740								
		OBS	0400	0418	34867	2768			14740								
		OBS	0482	0417	34901	2771			14754								
		STD	0500	0407	3490	2772	0004317	0386	14753								
		OBS	0500	0407	34903	2772			14753								
		OBS	0580	0398	34905	2773			14762								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47050N	047330W		149	77	05	17	227	1968	002	10184	0247	1	21	4	3		X2	0	3		0145

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S12	125	028	028	7	17	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCO
		STD	0000	0057	3272	2626	0017668	0000	14487								
227		OBS	0000	0057	32722	2626			14487								
		STD	0010	0056	3272	2626	0017657	0017	14489								
		OBS	0010	0056	32722	2626			14489								
		STD	0020	0048	3270	2625	0017745	0035	14486								
001		OBS	0020	0048	32705	2625			14486								
		OBS	0025	0047	32703	2625			14487								
		STD	0030	0043	3271	2626	0017697	0053	14486								
		OBS	0030	0043	32708	2626			14486								
		OBS	0040	0043	32711	2626			14487								
		STD	0050	-0098	3270	2632	0017129	0087	14424								
		OBS	0050	-0098	32705	2632			14424								
		OBS	0062	-0141	32923	2650			14409								
		STD	0075	-0127	3312	2666	0013845	0126	14420								
		OBS	0075	-0127	33120	2666			14420								
		OBS	0090	-0112	33163	2669			14430								
		OBS	0095	-0069	33263	2676			14453								
		STD	0100	-0094	3326	2677	0012845	0160	14442								
		OBS	0100	-0094	33263	2677			14442								
		STD	0125	-0018	3361	2701	0010532	0189	14486								
		OBS	0125	-0018	33606	2701			14486								
		STD	0150	0077	3385	2716	0009195	0213	14537								
		OBS	0150	0077	33848	2716			14537								
		OBS	0182	0177	34214	2738			14592								
		STD	0200	0304	3454	2753	0005762	0251	14654								
		OBS	0200	0304	34536	2753			14654								
		OBS	0210	0317	34558	2754			14662								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47050N	047470W		149	77	05	17	238	1968	002	10185	0192	1	21	1	2		X2	0	3		0146

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S12	129	028	028	7	15	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCO
		STD	0000	0077	3274	2627	0017632	0000	14497								
238		OBS	0000	0077	32740	2627			14497								
		STD	0010	0067	3273	2627	0017630	0017	14494								
		OBS	0010	0067	32733	2627			14494								
		STD	0020	0059	3274	2628	0017519	0035	14492								
001		OBS	0020	0059	32742	2628			14492								
		OBS	0025	0057	32742	2628			14492								
		STD	0030	0055	3274	2628	0017499	0052	14492								
		OBS	0030	0055	32742	2628			14492								
		OBS	0042	0051	32742	2628			14492								
		STD	0050	-0096	3278	2638	0016551	0086	14426								
		OBS	0050	-0096	32782	2638			14426								
		OBS	0060	-0139	33002	2657			14410								
		STD	0075	-0133	3310	2665	0013970	0124	14417								
		OBS	0075	-0133	33102	2665			14417								
		STD	0100	-0103	3335	2684	0012129	0157	14439								
		OBS	0100	-0103	33352	2684			14439								
		OBS	0112	-0023	33482	2691			14480								
		STD	0125	0004	3354	2695	0011126	0186	14495								
		OBS	0125	0004	33542	2695			14495								
		STD	0150	0061	3380	2713	0009450	0212	14529								
		OBS	0150	0061	33802	2713			14529								
		OBS	0165	0101	34042	2730			14553								
		OBS	0170	0192	34134	2731			14595								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47050N	048020W		149	78	05	18	010	1968	002	10186	0165	1	20	1	2		X2	0	3		0147

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S12	129	028	028	7	12	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	NODC
		STD	0000	0063	3274	2627	0017559	0000	14490								
010		OBS	0000	0063	32740	2627			14490								
		STD	0010	0056	3273	2627	0017584	0017	14489								
		OBS	0010	0056	32732	2627			14489								
		STD	0020	0047	3274	2628	0017501	0035	14486								
001		OBS	0020	0047	32737	2628			14486								
		OBS	0025	0043	32741	2629			14485								
		STD	0030	0042	3274	2629	0017435	0052	14486								
		OBS	0030	0042	32742	2629			14486								
		STD	0050	0036	3274	2629	0017375	0087	14486								
		OBS	0050	0036	32745	2629			14486								
		OBS	0058	-0122	32772	2638			14415								
		STD	0075	-0136	3306	2662	0014267	0126	14415								
		OBS	0075	-0136	33062	2662			14415								
		STD	0100	-0043	3339	2685	0012056	0159	14467								
		OBS	0100	-0043	33392	2685			14467								
		STD	0125	0041	3362	2700	0010697	0188	14513								
		OBS	0125	0041	33624	2700			14513								
		OBS	0130	0067	33732	2707			14527								
		OBS	0145	0076	33744	2707			14534								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47050N	048170W		149	78	05	18	021	1968	002	10187	0137	1	20	2	2		X2	0	3		0148

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S12	129	022	022	7	11	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	NODC
		STD	0000	0117	3273	2623	0017949	0000	14515								
021		OBS	0000	0117	32729	2623			14515								
		STD	0010	0097	3273	2625	0017821	0017	14507								
		OBS	0010	0097	32730	2625			14507								
		STD	0020	0093	3273	2625	0017793	0035	14507								
001		OBS	0020	0093	32731	2625			14507								
		OBS	0025	0090	32732	2625			14507								
		STD	0030	0090	3273	2625	0017755	0053	14507								
		OBS	0030	0090	32733	2625			14507								
		OBS	0037	0077	32735	2626			14503								
		OBS	0046	-0092	32882	2646			14428								
		STD	0050	-0090	3308	2662	0014273	0085	14433								
		OBS	0050	-0090	33082	2662			14433								
		STD	0075	-0007	3324	2671	0013419	0120	14478								
		OBS	0075	-0007	33236	2671			14478								
		STD	0100	0015	3334	2678	0012705	0152	14493								
		OBS	0100	0015	33342	2678			14493								
		OBS	0120	0031	33499	2690			14506								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MD	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039	EV	44390N	049160W		149	49	05	18	176	1968	002	10188		0062	1	18	3	4		X2	0	3		0149

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	32	S05	034	044	039	7	06	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0238	3270	2613	0018972	0000	14568								
176		OBS	0000	0238	32700	2613			14568								
		STD	0010	0206	3269	2614	0018793	0018	14555								
		OBS	0010	0206	32694	2614			14555								
		STD	0020	0203	3273	2618	0018487	0037	14556								
001		OBS	0020	0203	32731	2618			14556								
		OBS	0025	0198	32735	2618			14555								
		STD	0030	0197	3273	2618	0018452	0056	14555								
		OBS	0030	0197	32730	2618			14555								
		STD	0050	0191	3272	2618	0018482	0092	14556								
		OBS	0050	0191	32722	2618			14556								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MD	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039	EV	44370N	049050W		149	49	05	18	186	1968	002	10189		0805	1	18	2	4		X2	0	3		0150

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	35	S08	034	044	044	7	19	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0167	3276	2623	0018021	0000	14537								
186		OBS	0000	0167	32760	2623			14537								
		STD	0010	0165	3276	2622	0018031	0018	14538								
		OBS	0010	0165	32757	2622			14538								
		STD	0020	0156	3276	2623	0017950	0036	14536								
002		OBS	0020	0156	32760	2623			14536								
		OBS	0025	0147	32754	2623			14532								
		STD	0030	0143	3276	2624	0017877	0053	14532								
		OBS	0030	0143	32759	2624			14532								
		STD	0050	0106	3280	2630	0017321	0089	14519								
		OBS	0050	0106	32802	2630			14519								
		STD	0075	0060	3297	2646	0015783	0130	14504								
		OBS	0075	0060	32969	2646			14504								
		OBS	0086	0018	33092	2658			14489								
		STD	0100	0049	3369	2705	0010224	0163	14514								
		OBS	0100	0049	33692	2705			14514								
		STD	0125	0146	3405	2727	0008100	0185	14566								
		OBS	0125	0146	34052	2727			14566								
		STD	0150	0235	3429	2740	0006979	0204	14613								
		OBS	0150	0235	34291	2740			14613								
		OBS	0172	0363	34682	2759			14677								
		STD	0200	0386	3476	2763	0004868	0234	14692								
		OBS	0200	0386	34761	2763			14692								
		STD	0250	0415	3486	2768	0004464	0257	14714								
		OBS	0250	0415	34862	2768			14714								
		STD	0300	0415	3488	2770	0004370	0279	14723								
		OBS	0300	0415	34881	2770			14723								
		STD	0400	0406	3488	2771	0004344	0323	14735								
		OBS	0400	0406	34884	2771			14735								
		STD	0500	0398	3489	2772	0004288	0366	14749								
		OBS	0500	0398	34893	2772			14749								
		STD	0600	0394	3489	2773	0004322	0409	14764								
		OBS	0600	0394	34895	2773			14764								
		OBS	0610	0393	34897	2773			14765								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	44340N	048400W		149	48	05	18	198	1968	002	10190	2103	1	22	2	3		X2	0	3		0151

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	24	S10	041	039	039	7	27	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SEC
		STD	0000	0186	3269	2616	0018664	0000	14545								
198		OBS	0000	0186	32692	2616			14545								
		STD	0010	0079	3261	2616	0018599	0018	14497								
		OBS	0010	0079	32614	2616			14497								
		STD	0020	0058	3280	2632	0017094	0036	14492								
002		OBS	0020	0058	32797	2632			14492								
		OBS	0025	0048	32814	2634			14489								
		STD	0030	0036	3283	2636	0016755	0053	14484								
		OBS	0030	0036	32827	2636			14484								
		OBS	0045	-0056	33082	2661			14448								
		STD	0050	-0036	3326	2674	0013097	0083	14460								
		OBS	0050	-0036	33262	2674			14460								
		STD	0075	-0002	3348	2691	0011551	0114	14483								
		OBS	0075	-0002	33484	2691			14483								
		STD	0100	0015	3358	2697	0010909	0142	14497								
		OBS	0100	0015	33578	2697			14497								
		STD	0125	0051	3376	2710	0009717	0167	14520								
		OBS	0125	0051	33760	2710			14520								
		STD	0150	0089	3392	2721	0008723	0191	14543								
		OBS	0150	0089	33920	2721			14543								
		STD	0200	0225	3433	2744	0006612	0229	14617								
		OBS	0200	0225	34332	2744			14617								
		STD	0250	0351	3467	2759	0005260	0259	14685								
		OBS	0250	0351	34667	2759			14685								
		STD	0300	0400	3477	2763	0005015	0284	14715								
		OBS	0300	0400	34773	2763			14715								
		OBS	0330	0434	34850	2765			14735								
		STD	0400	0446	3489	2767	0004715	0333	14752								
		OBS	0400	0446	34894	2767			14752								
		STD	0500	0432	3490	2770	0004580	0379	14763								
		OBS	0500	0432	34905	2770			14763								
		STD	0600	0418	3490	2771	0004518	0425	14774								
		OBS	0600	0418	34905	2771			14774								
		STD	0700	0407	3490	2772	0004500	0470	14786								
		OBS	0700	0407	34904	2772			14786								
		STD	0800	0394	3491	2774	0004418	0515	14797								
		OBS	0800	0394	34907	2774			14797								
		STD	0900	0384	3491	2775	0004399	0559	14809								
		OBS	0900	0384	34906	2775			14809								
		STD	1000	0377	3491	2776	0004400	0603	14823								
		OBS	1000	0377	34907	2776			14823								
		STD	1100	0375	3491	2776	0004455	0647	14839								
		OBS	1100	0375	34908	2776			14839								
		STD	1200	0373	3491	2776	0004509	0692	14855								
		OBS	1200	0373	34908	2776			14855								
		STD	1300	0371	3491	2777	0004543	0737	14871								
		OBS	1300	0371	34912	2777			14871								
		STD	1400	0371	3492	2777	0004591	0783	14888								
		OBS	1400	0371	34917	2777			14888								
		STD	1500	0369	3492	2778	0004615	0829	14904								
		OBS	1500	0369	34921	2778			14904								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTN	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318	039	EV	44310N	048340W		149	48	05	18	213	1968	002	10191	2700	1	20	3	3		X2	0	3		0152

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	34	S10	044	039	039	7	31	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SPC
		STD	0000	0206	3301	2640	0016373	0000	14558								
213		OBS	0000	0206	33012	2640			14558								
		STD	0010	0196	3301	2641	0016303	0016	14555								
		OBS	0010	0196	33012	2641			14555								
		STD	0020	0161	3303	2644	0015959	0032	14542								
003		OBS	0020	0161	33027	2644			14542								
		OBS	0025	0126	33047	2648			14527								
		STD	0030	-0019	3317	2666	0013865	0047	14464								
		OBS	0030	-0019	33172	2666			14464								
		STD	0050	0111	3379	2709	0009829	0071	14535								
		OBS	0050	0111	33792	2709			14535								
		OBS	0070	0246	33967	2713			14600								
		STD	0075	0205	3399	2718	0008966	0094	14583								
		OBS	0075	0205	33992	2718			14583								
		OBS	0082	0171	34060	2726			14570								
		STD	0100	0215	3420	2734	0007508	0115	14595								
		OBS	0100	0215	34197	2734			14595								
		OBS	0110	0261	34352	2742			14619								
		STD	0125	0266	3443	2749	0006148	0132	14624								
		OBS	0125	0266	34434	2749			14624								
		STD	0150	0276	3449	2752	0005806	0147	14634								
		OBS	0150	0276	34492	2752			14634								
		OBS	0182	0318	34615	2758			14659								
		STD	0200	0401	3473	2759	0005280	0174	14698								
		OBS	0200	0401	34727	2759			14698								
		STD	0250	0416	3481	2764	0004860	0200	14714								
		OBS	0250	0416	34810	2764			14714								
		OBS	0260	0420	34828	2765			14717								
		STD	0300	0441	3488	2767	0004685	0224	14733								
		OBS	0300	0441	34877	2767			14733								
		STD	0400	0444	3490	2768	0004632	0270	14752								
		OBS	0400	0444	34902	2768			14752								
		STD	0500	0426	3490	2770	0004510	0316	14761								
		OBS	0500	0426	34905	2770			14761								
		STD	0600	0414	3490	2771	0004495	0361	14772								
		OBS	0600	0414	34902	2771			14772								
		STD	0700	0396	3490	2773	0004383	0405	14781								
		OBS	0700	0396	34902	2773			14781								
		STD	0800	0396	3491	2774	0004387	0449	14798								
		OBS	0800	0396	34914	2774			14798								
		OBS	0860	0396	34918	2775			14808								
		STD	0900	0386	3491	2775	0004404	0493	14810								
		OBS	0900	0386	34909	2775			14810								
		STD	1000	0372	3490	2776	0004370	0537	14821								
		OBS	1000	0372	34902	2776			14821								
		STD	1100	0368	3490	2776	0004392	0581	14836								
		OBS	1100	0368	34904	2776			14836								
		STD	1200	0368	3491	2777	0004441	0625	14853								
		OBS	1200	0368	34909	2777			14853								
		STD	1300	0368	3491	2777	0004489	0670	14870								
		OBS	1300	0368	34914	2777			14870								
		STD	1400	0366	3492	2778	0004513	0715	14886								
		OBS	1400	0366	34919	2778			14886								
		STD	1500	0366	3493	2779	0004525	0760	14903								
		OBS	1500	0366	34928	2779			14903								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	44280N	048190W		149	48	05	18	227	1968	002	10192	3292	1	15	0	2		X2	0	3		0153

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	34	S10	051	039	039	7	28	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ ΔD DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	ND3-N µg-at/l	SiO4-Si µg-at/l	pH
		STD	0000	0317	3314	2641	0016301	0000	14608							
228		OBS	0000	0317	33137	2641			14608							
		STD	0010	0275	3314	2645	0015934	0016	14592							
		OBS	0010	0275	33140	2645			14592							
		STD	0020	0272	3314	2645	0015875	0032	14592							
003		OBS	0020	0272	33145	2645			14592							
		OBS	0025	0203	33148	2651			14563							
		STD	0030	0116	3331	2670	0013542	0046	14527							
		OBS	0030	0116	33307	2670			14527							
		STD	0050	0278	3396	2709	0009797	0070	14611							
		OBS	0050	0278	33957	2709			14611							
		OBS	0052	0314	34027	2712			14627							
		STD	0075	0217	3398	2716	0009176	0093	14588							
		OBS	0075	0217	33977	2716			14588							
		STD	0100	0396	3453	2744	0006635	0113	14677							
		OBS	0100	0396	34527	2744			14677							
		STD	0125	0443	3464	2747	0006303	0129	14702							
		OBS	0125	0443	34639	2747			14702							
		STD	0150	0466	3474	2753	0005788	0144	14717							
		OBS	0150	0466	34744	2753			14717							
		OBS	0160	0448	34736	2755			14711							
		STD	0200	0454	3479	2758	0005387	0172	14721							
		OBS	0200	0454	34788	2758			14721							
		OBS	0209	0475	34827	2759			14732							
		STD	0250	0458	3487	2764	0004859	0198	14732							
		OBS	0250	0458	34872	2764			14732							
		STD	0300	0468	3489	2765	0004849	0222	14745							
		OBS	0300	0468	34895	2765			14745							
		STD	0400	0443	3491	2769	0004586	0269	14751							
		OBS	0400	0443	34907	2769			14751							
		STD	0500	0415	3490	2771	0004416	0314	14756							
		OBS	0500	0415	34901	2771			14756							
		STD	0600	0395	3490	2773	0004315	0358	14764							
		OBS	0600	0395	34898	2773			14764							
		STD	0700	0398	3493	2775	0004217	0401	14782							
		OBS	0700	0398	34928	2775			14782							
		STD	0800	0394	3493	2776	0004276	0443	14797							
		OBS	0800	0394	34926	2776			14797							
		STD	0900	0383	3492	2776	0004273	0486	14809							
		OBS	0900	0383	34922	2776			14809							
		STD	1000	0369	3491	2777	0004292	0529	14820							
		OBS	1000	0369	34908	2777			14820							
		STD	1100	0369	3492	2777	0004315	0572	14837							
		OBS	1100	0369	34917	2777			14837							
		STD	1200	0369	3493	2778	0004320	0615	14854							
		OBS	1200	0369	34927	2778			14854							
		STD	1300	0369	3493	2778	0004396	0659	14870							
		OBS	1300	0369	34929	2778			14870							
		STD	1400	0369	3494	2779	0004391	0702	14887							
		OBS	1400	0369	34941	2779			14887							
		STD	1500	0369	3494	2779	0004457	0747	14904							
		OBS	1500	0369	34943	2779			14904							

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4425 N	04805 W		149	48	05	19	001	1968	002	10193	3658	1	15	1	2		X2	0	3		0154

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	34	S10	054	039	039	7	28	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0325	3317	2642	0016129	0000	14612								
001		OBS	0000	0325	33168	2642			14612								
		STD	0010	0279	3317	2647	0015753	0015	14594								
		OBS	0010	0279	33168	2647			14594								
		STD	0020	0256	3315	2647	0015720	0031	14585								
003		OBS	0020	0256	33148	2647			14585								
		OBS	0025	0136	33123	2654			14533								
		STD	0030	0097	3323	2665	0014029	0046	14517								
		OBS	0030	0097	33228	2665			14517								
		OBS	0037	0083	33528	2690			14516								
		STD	0050	0116	3378	2708	0009929	0070	14537								
		OBS	0050	0116	33783	2708			14537								
		STD	0075	0302	3416	2724	0008453	0093	14628								
		OBS	0075	0302	34165	2724			14628								
		STD	0100	0403	3453	2743	0006655	0112	14680								
		OBS	0100	0403	34533	2743			14680								
		OBS	0117	0491	34707	2747			14722								
		STD	0125	0491	3473	2749	0006128	0128	14723								
		OBS	0125	0491	34732	2749			14723								
		STD	0150	0446	3470	2752	0005880	0143	14709								
		OBS	0150	0446	34703	2752			14709								
		OBS	0160	0494	34787	2753			14731								
		STD	0200	0493	3487	2760	0005199	0171	14738								
		OBS	0200	0493	34871	2760			14738								
		STD	0250	0461	3488	2765	0004825	0196	14734								
		OBS	0250	0461	34880	2765			14734								
		STD	0300	0449	3489	2767	0004637	0219	14737								
		OBS	0300	0449	34895	2767			14737								
		STD	0400	0429	3492	2771	0004357	0264	14746								
		OBS	0400	0429	34916	2771			14746								
		STD	0500	0410	3491	2773	0004275	0307	14754								
		OBS	0500	0410	34912	2773			14754								
		STD	0600	0391	3490	2774	0004256	0350	14762								
		OBS	0600	0391	34900	2774			14762								
		STD	0700	0383	3490	2775	0004236	0393	14776								
		OBS	0700	0383	34902	2775			14776								
		STD	0800	0377	3490	2775	0004252	0435	14790								
		OBS	0800	0377	34903	2775			14790								
		STD	0900	0374	3490	2776	0004289	0478	14805								
		OBS	0900	0374	34905	2776			14805								
		STD	1000	0374	3491	2777	0004313	0521	14822								
		OBS	1000	0374	34913	2777			14822								
		STD	1100	0367	3492	2777	0004292	0564	14836								
		OBS	1100	0367	34916	2777			14836								
		STD	1200	0367	3493	2778	0004297	0607	14853								
		OBS	1200	0367	34927	2778			14853								
		STD	1300	0367	3494	2779	0004319	0650	14870								
		OBS	1300	0367	34936	2779			14870								
		STD	1400	0367	3494	2779	0004367	0693	14886								
		OBS	1400	0367	34941	2779			14886								
		STD	1500	0367	3495	2780	0004397	0737	14903								
		OBS	1500	0367	34948	2780			14903								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPL INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4423 N	04751 W		149	47	05	19	016	1968	002	10194	3749	1	35	2	2		X4	0	3		0155

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	34	S09	058	039	039	2	28	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔC DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	NODC
		STD	0000	0336	3316	2641	0016301	0000	14617								
016		OBS	0000	0336	33158	2641			14617								
		STD	0010	0319	3314	2641	0016315	0016	14611								
		OBS	0010	0319	33138	2641			14611								
		STD	0020	0291	3313	2643	0016129	0032	14600								
005		OBS	0020	0291	33132	2643			14600								
		OBS	0025	0290	33132	2643			14600								
		STD	0030	0289	3314	2643	0016070	0048	14601								
		OBS	0030	0289	33138	2643			14601								
		OBS	0037	0287	33163	2645			14602								
		STD	0050	0097	3317	2660	0014499	0079	14520								
		OBS	0050	0097	33166	2660			14520								
		STD	0075	0158	3388	2713	0009490	0109	14561								
		OBS	0075	0158	33878	2713			14561								
		STD	0100	0204	3416	2732	0007695	0130	14589								
		OBS	0100	0204	34161	2732			14589								
		STD	0125	0250	3424	2734	0007486	0149	14615								
		OBS	0125	0250	34238	2734			14615								
		STD	0150	0397	3451	2742	0006843	0167	14685								
		OBS	0150	0397	34506	2742			14685								
		OBS	0162	0437	34676	2751			14706								
		STD	0200	0490	3484	2758	0005431	0198	14737								
		OBS	0200	0490	34836	2758			14737								
		STD	0250	0477	3489	2763	0004951	0224	14740								
		OBS	0250	0477	34888	2763			14740								
		STD	0300	0456	3490	2767	0004696	0248	14740								
		OBS	0300	0456	34898	2767			14740								
		OBS	0340	0465	34918	2767			14751								
		STD	0400	0427	3492	2771	0004329	0293	14745								
		OBS	0400	0427	34918	2771			14745								
		STD	0500	0412	3491	2772	0004341	0336	14755								
		OBS	0500	0412	34907	2772			14755								
		STD	0600	0397	3492	2775	0004184	0379	14765								
		OBS	0600	0397	34918	2775			14765								
		STD	0700	0395	3492	2775	0004248	0421	14781								
		OBS	0700	0395	34919	2775			14781								
		STD	0800	0391	3493	2776	0004226	0463	14796								
		OBS	0800	0391	34928	2776			14796								
		STD	0900	0384	3491	2775	0004399	0507	14809								
		OBS	0900	0384	34906	2775			14809								
		STD	1000	0381	3491	2775	0004437	0551	14825								
		OBS	1000	0381	34908	2775			14825								
		STD	1100	0380	3491	2776	0004477	0595	14841								
		OBS	1100	0380	34913	2776			14841								
		STD	1200	0380	3492	2777	0004502	0640	14858								
		OBS	1200	0380	34921	2777			14858								
		STD	1300	0380	3492	2777	0004562	0686	14875								
		OBS	1300	0380	34925	2777			14875								
		STD	1400	0380	3493	2778	0004586	0731	14892								
		OBS	1400	0380	34933	2778			14892								
		STD	1500	0380	3494	2778	0004637	0777	14909								
		OBS	1500	0380	34938	2778			14909								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44190N	047280W		149	47	05	19	035	1968	002	10195	3968	1	21	2	3		X4	0	3		0156

WATER CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	34	S11	061	039	039	2	30	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0378	3318	2639	0016482	0000	14635								
035		OBS	0000	0378	33184	2639			14635								
		STD	0010	0340	3316	2641	0016298	0016	14620								
		OBS	0010	0340	33164	2641			14620								
		STD	0020	0355	3322	2644	0015988	0032	14629								
003		OBS	0020	0355	33224	2644			14629								
		OBS	0025	0350	33244	2646			14628								
		STD	0030	0343	3325	2648	0015668	0048	14626								
		OBS	0030	0343	33253	2648			14626								
		STD	0050	0115	3336	2674	0013100	0077	14531								
		OBS	0050	0115	33364	2674			14531								
		OBS	0065	0097	33704	2703			14530								
		STD	0075	0117	3396	2722	0008561	0104	14544								
		OBS	0075	0117	33964	2722			14544								
		OBS	0094	0198	34144	2731			14585								
		STD	0100	0308	3432	2736	0007370	0124	14637								
		OBS	0100	0308	34318	2736			14637								
		OBS	0120	0237	34285	2739			14609								
		STD	0125	0248	3430	2740	0006971	0142	14615								
		OBS	0125	0248	34304	2740			14615								
		OBS	0135	0357	34504	2746			14666								
		STD	0150	0320	3448	2748	0006265	0158	14652								
		OBS	0150	0320	34484	2748			14652								
		OBS	0160	0277	34487	2752			14636								
		STD	0200	0350	3464	2758	0005389	0187	14676								
		OBS	0200	0350	34644	2758			14676								
		STD	0250	0472	3490	2765	0004813	0213	14738								
		OBS	0250	0472	34899	2765			14738								
		STD	0300	0496	3496	2767	0004698	0237	14757								
		OBS	0300	0496	34959	2767			14757								
		STD	0400	0469	3496	2770	0004459	0282	14763								
		OBS	0400	0469	34964	2770			14763								
		STD	0500	0448	3497	2773	0004277	0326	14771								
		OBS	0500	0448	34971	2773			14771								
		STD	0600	0434	3497	2774	0004256	0369	14781								
		OBS	0600	0434	34966	2774			14781								
		STD	0700	0415	3496	2776	0004157	0411	14790								
		OBS	0700	0415	34962	2776			14790								
		STD	0800	0395	3494	2777	0004171	0452	14798								
		OBS	0800	0395	34942	2777			14798								
		STD	0900	0378	3493	2777	0004173	0494	14807								
		OBS	0900	0378	34927	2777			14807								
		STD	1000	0380	3494	2778	0004151	0536	14825								
		OBS	1000	0380	34945	2778			14825								
		STD	1100	0375	3494	2779	0004225	0578	14840								
		OBS	1100	0375	34939	2779			14840								
		STD	1200	0375	3494	2779	0004276	0620	14856								
		OBS	1200	0375	34944	2779			14856								
		STD	1300	0369	3495	2780	0004219	0663	14871								
		OBS	1300	0369	34953	2780			14871								
		STD	1400	0367	3495	2780	0004279	0705	14887								
		OBS	1400	0367	34953	2780			14887								
		STD	1500	0366	3496	2781	0004314	0748	14903								
		OBS	1500	0366	34957	2781			14903								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	44150N	047070W		149	47	05	19	056	1968	002	10196	4206	1	21	2	5		X4	0	3		0157

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	33	S16	068	033	033	5	36	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCO
		STD	0000	0242	3281	2621	0018175	0000	14571								
056		OBS	0000	0242	32809	2621			14571								
		STD	0010	0126	3275	2625	0017804	0018	14521								
		OBS	0010	0126	32754	2625			14521								
		STD	0020	0101	3279	2629	0017395	0035	14511								
003		OBS	0020	0101	32789	2629			14511								
		OBS	0025	0110	32909	2638			14518								
		STD	0030	0331	3351	2669	0013632	0051	14624								
		OBS	0030	0331	33509	2669			14624								
		OBS	0034	0398	33600	26700											
		OBS	0041	0280	33400	26650											
		STD	0050	0321	3346	2666	0013932	0078	14622								
		OBS	0050	0321	33459	2666			14622								
		OBS	0052	0361	33479	2664			14640								
		OBS	0059	0283	33309	2657			14605								
		STD	0075	0734	3442	2693	0011420	0110	14808								
		OBS	0075	0734	34419	2693			14808								
		OBS	0082	0773	34504	2695			14826								
		STD	0100	0540	3427	2707	0010125	0137	14733								
		OBS	0100	0540	34269	2707			14733								
		OBS	0112	0235	33934	2711			14602								
		STD	0125	0360	3407	2711	0009739	0162	14660								
		OBS	0125	0360	34069	2711			14660								
		OBS	0129	0380	34149	2715			14670								
		OBS	0140	0180	34009	2722			14583								
		STD	0150	0493	3446	2727	0008239	0184	14725								
		OBS	0150	0493	34457	2727			14725								
		OBS	0156	0459	34432	2729			14711								
		OBS	0190	0630	34829	2740			14792								
		STD	0200	0598	3475	2738	0007363	0223	14780								
		OBS	0200	0598	34749	2738			14780								
		OBS	0222	0300	34519	2752			14656								
		STD	0250	0526	3489	2758	0005502	0255	14760								
		OBS	0250	0526	34890	2758			14760								
		STD	0300	0478	3489	2764	0004991	0282	14749								
		OBS	0300	0478	34891	2764			14749								
		STD	0400	0399	3485	2769	0004534	0329	14732								
		OBS	0400	0399	34849	2769			14732								
		STD	0500	0379	3485	2771	0004407	0374	14740								
		OBS	0500	0379	34849	2771			14740								
		STD	0600	0374	3486	2772	0004364	0418	14755								
		OBS	0600	0374	34859	2772			14755								
		STD	0700	0372	3487	2773	0004369	0461	14771								
		OBS	0700	0372	34868	2773			14771								
		STD	0800	0370	3488	2774	0004372	0505	14786								
		OBS	0800	0370	34876	2774			14786								
		STD	0900	0370	3489	2775	0004360	0549	14803								
		OBS	0900	0370	34889	2775			14803								
		STD	1000	0370	3490	2776	0004383	0592	14820								
		OBS	1000	0370	34897	2776			14820								
		STD	1100	0370	3491	2777	0004389	0636	14837								
		OBS	1100	0370	34908	2777			14837								
		STD	1200	0370	3492	2778	0004368	0680	14854								
		OBS	1200	0370	34923	2778			14854								
		STD	1300	0373	3493	2778	0004408	0724	14872								
		OBS	1300	0373	34934	2778			14872								
		STD	1400	0375	3495	2779	0004402	0768	14890								
		OBS	1400	0375	34949	2779			14890								
		STD	1500	0374	3495	2780	0004431	0812	14906								
		OBS	1500	0374	34955	2780			14906								

REFERENCE CTRY CODE	REFERENCE ID. ND.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDEX	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	44070N	046250W		149	46	05	19	086	1968	002	10197	4060	1	32	4	2		X1	0	3		0158

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	50	32	S18	091	061	061	7	35	

MESSENGR TIME OF HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	1327	3540	2667	0013839	0000	15023								
086		OBS	0000	1327	35400	2667			15023								
		STD	0010	1338	3543	2667	0013831	0013	15026								
		OBS	0010	1338	35435	2667			15028								
		STD	0020	1419	3574	2674	0013201	0027	15060								
003		OBS	0020	1419	35745	2674			15060								
		OBS	0025	1441	35807	2674			15069								
		STD	0030	1446	3583	2675	0013124	0040	15072								
		OBS	0030	1446	35835	2675			15072								
		STD	0050	1451	3586	2676	0013066	0066	15077								
		OBS	0050	1451	35865	2676			15077								
		STD	0075	1460	3591	2678	0013007	0099	15085								
		OBS	0075	1460	35909	2678			15085								
		OBS	0090	1463	35925	2678			15088								
		STD	0100	1491	3603	2681	0012816	0131	15100								
		OBS	0100	1491	36034	2681			15100								
		STD	0125	1445	3593	2683	0012675	0163	15088								
		OBS	0125	1445	35933	2683			15088								
		STD	0150	1416	3588	2685	0012571	0195	15082								
		OBS	0150	1416	35875	2685			15082								
		STD	0200	1317	3564	2688	0012403	0257	15055								
		OBS	0200	1317	35645	2688			15055								
		OBS	0221	1225	35465	2692			15025								
		STD	0250	1253	3557	2695	0011845	0318	15041								
		OBS	0250	1253	35570	2695			15041								
		OBS	0275	1238	35575	2698			15040								
		STD	0300	1139	3541	2705	0010987	0375	15008								
		OBS	0300	1139	35415	2705			15008								
		OBS	0315	1041	35275	2711			14974								
		OBS	0335	1043	35307	2714			14978								
		STD	0400	0880	3512	2726	0008978	0475	14927								
		OBS	0400	0880	35118	2726			14927								
		OBS	0417	0772	34987	2733			14887								
		OBS	0440	0775	35013	2734			14892								
		STD	0500	0548	3477	2746	0006936	0554	14809								
		OBS	0500	0548	34775	2746			14809								
		OBS	0515	0522	34760	2748			14801								
		OBS	0531	0579	34920	2754			14829								
		STD	0600	0558	3498	2761	0005637	0617	14832								
		OBS	0600	0558	34985	2761			14832								
		OBS	0672	0559	35080	2769			14846								
		STD	0700	0546	3506	2769	0005033	0670	14845								
		OBS	0700	0546	35063	2769			14845								
		STD	0800	0498	3504	2773	0004697	0719	14842								
		OBS	0800	0498	35041	2773			14842								
		STD	0900	0460	3501	2775	0004519	0765	14843								
		OBS	0900	0460	35015	2775			14843								
		STD	1000	0449	3502	2777	0004422	0810	14855								
		OBS	1000	0449	35024	2777			14855								
		STD	1100	0428	3501	2778	0004374	0854	14863								
		OBS	1100	0428	35008	2778			14863								
		STD	1200	0417	3500	2779	0004379	0897	14875								
		OBS	1200	0417	35001	2779			14875								
		STD	1300	0404	3499	2780	0004355	0941	14886								
		OBS	1300	0404	34995	2780			14886								
		STD	1400	0392	3498	2780	0004371	0985	14897								
		OBS	1400	0392	34983	2780			14897								
		STD	1500	0378	3497	2781	0004357	1028	14908								
		OBS	1500	0378	34973	2781			14908								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	43200N	046160W		149	36	05	19	133	1968	002	10198	4663	1	30	2	2		X1	0	3		0159

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	32	S17	125	117	100	7	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH
		STD	0000	1301	3525	2660	0014436	0000	15012							
133		OBS	0000	1301	35251	2660			15012							
		STD	0010	1428	3565	2665	0014041	0014	15061							
		OBS	0010	1428	35651	2665			15061							
		STD	0020	1525	3608	2677	0012961	0027	15098							
003		OBS	0020	1525	36080	2677			15098							
		OBS	0025	1563	36110	2670			15111							
		STD	0030	1548	3610	2673	0013337	0040	15107							
		OBS	0030	1548	36100	2673			15107							
		STD	0050	1525	3606	2675	0013190	0067	15103							
		OBS	0050	1525	36061	2675			15103							
		STD	0075	1526	3611	2679	0012907	0100	15108							
		OBS	0075	1526	36113	2679			15108							
		STD	0100	1547	3618	2679	0012961	0132	15120							
		OBS	0100	1547	36178	2679			15120							
		STD	0125	1547	3618	2680	0013003	0164	15124							
		OBS	0125	1547	36183	2680			15124							
		STD	0150	1547	3619	2680	0013064	0197	15128							
		OBS	0150	1547	36186	2680			15128							
		STD	0200	1548	3619	2680	0013220	0263	15136							
		OBS	0200	1548	36189	2680			15136							
		STD	0250	1448	3592	2681	0013191	0329	15110							
		OBS	0250	1448	35921	2681			15110							
		STD	0300	1365	3574	2685	0012945	0394	15089							
		OBS	0300	1365	35741	2685			15089							
		STD	0400	1169	3548	2704	0011315	0515	15036							
		OBS	0400	1169	35479	2704			15036							
		OBS	0435	1031	35238	2710			14990							
		OBS	0470	1021	35273	2715			14992							
		STD	0500	0958	3522	2721	0009709	0620	14973							
		OBS	0500	0958	35219	2721			14973							
		OBS	0579	0737	34964	2736			14900							
		OBS	0583	0752	34996	2736			14907							
		STD	0600	0738	3501	2739	0007943	0709	14904							
		OBS	0600	0738	35012	2739			14904							
		OBS	0622	0695	34991	2744			14891							
		OBS	0639	0706	35043	2746			14899							
		OBS	0670	0564	34881	2753			14845							
		OBS	0679	0617	34981	2754			14869							
		STD	0700	0594	3500	2759	0006100	0779	14864							
		OBS	0700	0594	35005	2759			14864							
		STD	0800	0520	3498	2766	0005414	0837	14850							
		OBS	0800	0520	34983	2766			14850							
		STD	0900	0473	3496	2770	0005053	0889	14847							
		OBS	0900	0473	34965	2770			14847							
		STD	1000	0459	3499	2773	0004827	0938	14858							
		OBS	1000	0459	34986	2773			14858							
		STD	1100	0450	3501	2776	0004670	0986	14872							
		OBS	1100	0450	35006	2776			14872							
		STD	1200	0429	3499	2777	0004598	1032	14879							
		OBS	1200	0429	34992	2777			14879							

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4323 N	04656 W		149	36	05	19	163	1968	002	10199	4078	1	33	4	4		X1	0	3		0160

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARDMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S12	159	106	089	7	32	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	ND_3-N µg-at/l	SIO_4-Si µg-at/l	pH	SCC
		STD	0000	1387	3548	2660	0014436	0000	15043								
163		OBS	0000	1387	35480	2660			15043								
		STD	0010	1396	3552	2661	0014375	0014	15049								
		OBS	0010	1396	35517	2661			15049								
		STD	0020	1401	3555	2663	0014268	0028	15052								
003		OBS	0020	1401	35550	2663			15052								
		OBS	0025	1407	35576	2663			15055								
		STD	0030	1419	3561	2664	0014180	0043	15060								
		OBS	0030	1419	35615	2664			15060								
		OBS	0042	1569	36189	2675			15117								
		STD	0050	1566	3617	2675	0013239	0070	15117								
		OBS	0050	1566	36175	2675			15117								
		STD	0075	1550	3615	2677	0013117	0103	15116								
		OBS	0075	1550	36155	2677			15116								
		STD	0100	1531	3611	2678	0013112	0136	15114								
		OBS	0100	1531	36110	2678			15114								
		STD	0125	1495	3606	2682	0012794	0168	15106								
		OBS	0125	1495	36059	2682			15106								
		STD	0150	1469	3600	2683	0012783	0200	15101								
		OBS	0150	1469	35997	2683			15101								
		STD	0200	1407	3585	2685	0012678	0264	15087								
		OBS	0200	1407	35855	2685			15087								
		STD	0250	1353	3577	2690	001235B	0326	15077								
		OBS	0250	1353	35768	2690			15077								
		STD	0300	1260	3562	2697	0011747	0387	15052								
		OBS	0300	1260	35620	2697			15052								
		STD	0400	1056	3532	2712	0010448	0497	14994								
		OBS	0400	1056	35318	2712			14994								
		OBS	0430	0939	35194	2723			14955								
		OBS	0465	0910	35154	2724			14949								
		OBS	0488	0825	35057	2730			14920								
		STD	0500	0823	3512	2735	0008271	0591	14922								
		OBS	0500	0823	35118	2735			14922								
		OBS	0537	0769	35099	2742			14907								
		OBS	0549	0659	34907	2742			14863								
		OBS	0569	0690	35019	2747			14880								
		STD	0600	0620	3496	2752	0006651	0666	14857								
		OBS	0600	0620	34960	2752			14857								
		STD	0700	0541	3498	2763	0005596	0727	14842								
		OBS	0700	0541	34978	2763			14842								
		OBS	0755	0507	34977	2767			14837								
		STD	0800	0536	3505	2769	0005132	0781	14858								
		OBS	0800	0536	35049	2769			14858								
		OBS	0847	0536	35080	2772			14866								
		OBS	0858	0507	35046	2772			14855								
		STD	0900	0494	3504	2773	0004786	0830	14857								
		OBS	0900	0494	35038	2773			14857								
		STD	1000	0454	3500	2775	0004673	0877	14857								
		OBS	1000	0454	34998	2775			14857								
		STD	1100	0424	3498	2776	0004540	0924	14860								
		OBS	1100	0424	34978	2776			14860								
		STD	1200	0417	3499	2778	0004494	0969	14874								
		OBS	1200	0417	34986	2778			14874								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	43280N	047430W		149	37	05	19	201	1968	002	10200	3913	1	32	3	2		X2	0	3		0161

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S04	159	072	061	7	38	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCO
		STD	0000	0892	3365	2609	0019289	0000	14847								
201		OBS	0000	0892	33646	2609			14847								
		STD	0010	1180	3475	2645	0015927	0017	14966								
		OBS	0010	1180	34746	2645			14966								
003		OBS	0016	1188	35286	2685			14977								
		STD	0020	1288	3555	2686	0012076	0031	15015								
		OBS	0020	1288	35546	2686			15015								
		OBS	0025	1369	35775	2687			15045								
		STD	0030	1371	3576	2685	0012143	0043	15047								
		OBS	0030	1371	35761	2685			15047								
		STD	0050	1377	3578	2685	0012220	0068	15052								
		OBS	0050	1377	35776	2685			15052								
		STD	0075	1358	3575	2687	0012126	0098	15050								
		OBS	0075	1358	35746	2687			15050								
		STD	0100	1281	3557	2689	0012012	0128	15026								
		OBS	0100	1281	35566	2689			15026								
		STD	0125	1231	3549	2693	0011671	0158	15012								
		OBS	0125	1231	35493	2693			15012								
		OBS	0130	1242	35521	2693			15017								
		STD	0150	1148	3535	2697	0011281	0187	14986								
		OBS	0150	1148	35346	2697			14986								
		OBS	0155	1186	35426	2696			15001								
		OBS	0174	1149	35356	2698			14990								
		OBS	0193	0944	34897	2699			14914								
		STD	0200	0956	3499	2704	0010743	0242	14920								
		OBS	0200	0956	34989	2704			14920								
		OBS	0210	1038	35237	2709			14955								
		OBS	0218	0946	35036	2709			14920								
		OBS	0231	1007	35190	2711			14947								
		STD	0250	0988	3520	2714	0009846	0293	14943								
		OBS	0250	0988	35196	2714			14943								
		STD	0300	0825	3496	2723	0009072	0340	14888								
		OBS	0300	0825	3522P	2743P											
		OBS	0340	0628P	34778	2736P											
		OBS	0349	0745	35035	2740			14866								
		OBS	0356	0628	34829	2740			14818								
		STD	0400	0657	3498	2748	0006740	0419	14839								
		OBS	0400	0657	34976	2748			14839								
		OBS	0420	0650	34951	2747			14839								
		OBS	0456	0587	34926	2753			14820								
		OBS	0496	0566	34954	2758			14818								
		STD	0500	0571	3497	2759	0005755	0482	14821								
		OBS	0517	0588	35045	2762			14832								
		OBS	0573	0578	35079	2766			14837								
		STD	0600	0526	3500	2766	0005137	0536	14820								
		OBS	0600	0526	34997	2766			14820								
		OBS	0620	0496	34980	2769			14810								
		STD	0700	0480	3501	2772	0004613	0585	14817								
		OBS	0700	0480	35006	2772			14817								
		STD	0800	0455	3500	2775	0004429	0630	14824								
		OBS	0800	0455	35004	2775			14824								
		STD	0900	0429	3499	2777	0004346	0674	14829								
		OBS	0900	0429	34986	2777			14829								
		STD	1000	0421	3499	2777	0004338	0718	14843								
		OBS	1000	0421	34987	2777			14843								
		STD	1100	0413	3499	2778	0004334	0761	14856								
		OBS	1100	0413	34987	2778			14856								
		STD	1200	0399	3498	2779	0004310	0804	14867								
		OBS	1200	0399	34980	2779			14867								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	43000N	048130W		149	38	05	19	237	1968	002	10201	3255	1	20	2	2		X2	0	3		0162

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	18	S09	146	083	083	7	39	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0744	3340	2612	0019017	0000	14787								
237		OBS	0000	0744	33400	2612			14787								
		STD	0010	0697	3340	2619	0018379	0018	14770								
		OBS	0010	0697	33405	2619			14770								
		STD	0020	0698	3345	2623	0018032	0036	14773								
003		OBS	0020	0698	33455	2623			14773								
		OBS	0025	0768	34225	2673			14811								
		STD	0030	0878	3447	2676	0013055	0052	14857								
		OBS	0030	0878	34466	2676			14857								
		STD	0050	1090	3514	2693	0011497	0077	14946								
		OBS	0050	1090	35145	2693			14946								
		STD	0075	1172	3536	2694	0011433	0105	14982								
		OBS	0075	1172	35359	2694			14982								
		STD	0100	1166	3534	2694	0011494	0134	14984								
		OBS	0100	1166	35345	2694			14984								
		OBS	0115	1084	35167	2695			14955								
		STD	0125	1121	3531	2700	0010969	0162	14972								
		OBS	0125	1121	35315	2700			14972								
		OBS	0145	1124	35320	2700			14976								
		STD	0150	0998	3506	2703	0010759	0189	14929								
		OBS	0150	0998	35065	2703			14929								
		OBS	0160	0972	35007	2702			14920								
		OBS	0185	1024	35193	2708			14945								
		STD	0200	0900	3496	2711	0010026	0241	14899								
		OBS	0200	0900	34965	2711			14899								
		OBS	0203	0920	35025	2712			14908								
		STD	0250	0655	3460	2719	0009255	0289	14809								
		OBS	0250	0655	34604	2719			14809								
		OBS	0261	0737	34895	2730			14846								
		OBS	0275	0679	34795	2731			14825								
		OBS	0291	0708	34886	2734			14840								
		STD	0300	0666	3481	2734	0007907	0332	14824								
		OBS	0300	0666	34815	2734			14824								
		OBS	0312	0579	34698	2736			14790								
		OBS	0329	0587	34740	2738			14796								
		OBS	0345	0684	34965	2743			14840								
		OBS	0360	0598	34825	2744			14807								
		STD	0400	0547	3483	2751	0006397	0404	14793								
		OBS	0400	0547	34830	2751			14793								
		OBS	0420	0512	34848	2756			14782								
		STD	0500	0537	3499	2764	0005223	0462	14807								
		OBS	0500	0537	34988	2764			14807								
		STD	0600	0500	3501	2770	0004734	0512	14809								
		OBS	0600	0500	35008	2770			14809								
		OBS	0680	0481	35035	2775			14815								
		STD	0700	0497	3507	2775	0004383	0557	14825								
		OBS	0700	0497	35066	2775			14825								
		STD	0800	0450	3503	2777	0004206	0600	14822								
		OBS	0800	0450	35026	2777			14822								
		STD	0900	0421	3499	2778	0004196	0642	14826								
		OBS	0900	0421	34993	2778			14826								
		STD	1000	0417	3500	2779	0004169	0684	14841								
		OBS	1000	0417	35004	2779			14841								
		STD	1100	0397	3498	2780	0004177	0726	14849								
		OBS	1100	0397	34982	2780			14849								
		STD	1200	0390	3498	2780	0004169	0767	14863								
		OBS	1200	0390	34983	2780			14863								
		STD	1300	0381	3498	2781	0004186	0809	14876								
		OBS	1300	0381	34978	2781			14876								
		STD	1400	0380	3498	2782	0004217	0851	14892								
		OBS	1400	0380	34984	2782			14892								
		STD	1500	0378	3498	2782	0004278	0894	14908								
		OBS	1500	0378	34983	2782			14908								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR,1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	42510N	047375W		149	27	05	20	027	1968	002	10202	3742	1	20	2	2		X6	0	3		0163

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	18	S16	091	078	078	6	35	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0786	3342	2608	0019443	0000	14803								
027		OBS	0000	0786	33420	2608			14803								
		STD	0000	0786	3342	2608	0019443	0000	14803								
027		OBS	0000	0786	33420	2608			14803								
		STD	0010	0785	3348	2613	0018970	0019	14805								
		OBS	0010	0785	33484	2613			14805								
		STD	0020	0778	3347	2613	0018995	0038	14804								
003		OBS	0020	0778	33469	2613			14804								
		OBS	0025	0738	33444	2616			14789								
		STD	0030	0662	3344	2627	0017672	0056	14760								
		OBS	0030	0662	33444	2627			14760								
		STD	0050	0438	3370	2674	0013197	0087	14675								
		OBS	0050	0438	33704	2674			14675								
		OBS	0051	0506	33844	2677			14706								
		OBS	0057	0399	33704	2678			14660								
		OBS	0064	0458	34104	2703			14691								
		OBS	0068	0433	34084	2705			14681								
		STD	0075	0578	3432	2706	0010165	0116	14745								
		OBS	0075	0578	34319	2706			14745								
		OBS	0084	0642	34429	2707			14774								
		STD	0100	0490	3429	2715	0009373	0141	14713								
		OBS	0100	0490	34294	2715			14713								
		OBS	0107	0462	34264	2716			14702								
		STD	0125	0637	3466	2726	0008389	0163	14782								
		OBS	0125	0637	34664	2726			14782								
		STD	0150	0550	3454	2727	0008268	0184	14749								
		OBS	0150	0550	34541	2727			14749								
		OBS	0177	0481	34521	2734			14725								
		STD	0200	0620	3485	2743	0006860	0221	14790								
		OBS	0200	0620	34854	2743			14790								
		OBS	0202	0650	34907	2743			14803								
		STD	0250	0563	3491	2755	0005775	0253	14776								
		OBS	0250	0563	34914	2755			14776								
		OBS	0270	0498	34767	2751			14751								
		OBS	0280	0517	34854	2756			14761								
		STD	0300	0506	3484	2757	0005666	0282	14760								
		OBS	0300	0506	34845	2757			14760								
		STD	0400	0518	3498	2766	0004918	0335	14783								
		OBS	0400	0518	34980	2766			14783								
		STD	0500	0479	3498	2771	0004538	0382	14784								
		OBS	0500	0479	34984	2771			14784								
		STD	0600	0458	3499	2774	0004371	0426	14792								
		OBS	0600	0458	34988	2774			14792								
		STD	0700	0458	3501	2776	0004283	0470	14809								
		OBS	0700	0458	35015	2776			14809								
		STD	0800	0437	3501	2778	0004163	0512	14816								
		OBS	0800	0437	35011	2778			14816								
		STD	0900	0414	3499	2778	0004154	0553	14823								
		OBS	0900	0414	34988	2778			14823								
		STD	1000	0415	3501	2780	0004111	0595	14840								
		OBS	1000	0415	35008	2780			14840								
		STD	1100	0411	3501	2781	0004126	0636	14856								
		OBS	1100	0411	35012	2781			14856								
		STD	1200	0402	3501	2781	0004151	0677	14868								
		OBS	1200	0402	35006	2781			14868								
		STD	1300	0391	3500	2781	0004173	0719	14880								
		OBS	1300	0391	34997	2781			14880								
		STD	1400	0384	3500	2782	0004169	0761	14894								
		OBS	1400	0384	34997	2782			14894								
		STD	1500	0381	3500	2783	0004210	0803	14910								
		OBS	1500	0381	34998	2783			14910								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
1	318039	EV	42130N	048260W		149	28	05	20	091	1968	002	10203	3566	1	23	3	2		X4	0	3		0164

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	24	S22	044	117	117	2	31	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STO	0000	0733	3327	2603	0019869	0000	14781								
091		OBS	0000	0733	33267	2603			14781								
		STO	0010	0680	3326	2610	0019221	0019	14761								
		OBS	0010	0680	33263	2610			14761								
		STO	0020	0518	3340	2641	0016267	0037	14700								
003		OBS	0020	0518	33403	2641			14700								
		OBS	0025	0337	33523	2670			14626								
		STO	0030	0293	3366	2685	0012137	0051	14610								
		OBS	0030	0293	33663	2685			14610								
		OBS	0040	0265	33683	2689			14600								
		STO	0050	0280	3386	2702	0010529	0074	14610								
		OBS	0050	0280	33863	2702			14610								
		STD	0075	0318	3412	2719	0008907	0098	14634								
		OBS	0075	0318	34123	2719			14634								
		STD	0100	0431	3445	2734	0007537	0119	14691								
		OBS	0100	0431	34454	2734			14691								
		STO	0125	0457	3450	2735	0007479	0137	14706								
		OBS	0125	0457	34502	2735			14706								
		STD	0150	0460	3457	2740	0007020	0155	14713								
		OBS	0150	0460	34571	2740			14713								
		OBS	0180	0443	34643	2748			14711								
		STO	0200	0499	3480	2754	0005778	0187	14740								
		OBS	0200	0499	34803	2754			14740								
		OBS	0210	0518	34843	2755			14750								
		STO	0250	0482	3483	2758	0005431	0215	14742								
		OBS	0250	0482	34831	2758			14742								
		STD	0300	0491	3490	2763	0005072	0242	14754								
		OBS	0300	0491	34901	2763			14754								
		OBS	0380	0476	34943	2768			14762								
		STD	0400	0511	3502	2770	0004517	0290	14781								
		OBS	0400	0511	35023	2770			14781								
		OBS	0450	0513	35037	2771			14790								
		STD	0500	0477	3500	2773	0004374	0334	14783								
		OBS	0500	0477	35003	2773			14783								
		OBS	0550	0445	34978	2774			14778								
		STD	0600	0456	3501	2776	0004162	0377	14791								
		OBS	0600	0456	35013	2776			14791								
		STO	0700	0446	3501	2777	0004138	0418	14804								
		OBS	0700	0446	35014	2777			14804								
		STD	0800	0425	3500	2778	0004114	0460	14811								
		OBS	0800	0425	34998	2778			14811								
		STD	0900	0404	3498	2779	0004114	0501	14819								
		OBS	0900	0404	34977	2779			14819								
		STD	1000	0394	3497	2779	0004131	0542	14831								
		OBS	1000	0394	34971	2779			14831								
		STD	1100	0396	3498	2780	0004139	0583	14849								
		OBS	1100	0396	34985	2780			14849								
		STO	1200	0384	3498	2781	0004099	0624	14861								
		OBS	1200	0384	34983	2781			14861								
		STO	1300	0378	3498	2781	0004142	0666	14875								
		OBS	1300	0378	34979	2781			14875								
		STD	1400	0378	3498	2782	0004193	0707	14892								
		OBS	1400	0378	34983	2782			14892								
		STD	1500	0373	3499	2783	0004155	0749	14906								
		OBS	1500	0373	34991	2783			14906								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	43140N	050230W		150	30	05	20	191	1968	002	10204	0078	1	29	4	3		X1	0	3		0165

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	S0	26	S06	091	056	056	7	11	

MESSENGR TIME OR HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	0506	3294	2606	0019606	0000	14685								
191		OBS	0000	0506	32939	2606			14685								
		OBS	0004	0505	32880	2601			14685								
		STD	0010	0477	3291	2607	0019506	0019	14674								
001		OBS	0010	0477	32912	2607			14674								
		STD	0020	0469	3293	2610	0019261	0038	14673								
		OBS	0020	0469	32935	2610			14673								
		OBS	0025	0469	32948	2611			14674								
		STD	0030	0464	3297	2613	0018971	0058	14673								
		OBS	0030	0464	32968	2613			14673								
		OBS	0035	0453	33120	2626			14671								
		OBS	0040	0437	33162	2631			14666								
		OBS	0045	0437	33247	2638			14668								
		STD	0050	0508	3377	2672	0013422	0090	14705								
		OBS	0050	0508	33772	2672			14705								
		OBS	0058	0577	33882	2672			14736								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	43040N	050230W		150	30	05	20	201	1968	002	10205	0083	1	27	4	3		X2	0	3		0166

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	S0	24	S06	095	078	072	0	13	

MESSENGR TIME OR HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	0533	3314	2619	0018383	0000	14699								
201		OBS	0000	0533	33140	2619			14699								
		OBS	0004	0528	33139	2619			14698								
		STD	0010	0515	3316	2623	0018031	0018	14693								
002		OBS	0010	0515	33163	2623			14693								
		STD	0020	0513	3317	2623	0017978	0036	14694								
		OBS	0020	0513	33168	2623			14694								
		OBS	0025	0513	33179	2624			14695								
		STD	0030	0516	3323	2628	0017526	0054	14698								
		OBS	0030	0516	33234	2628			14698								
		OBS	0038	0564	33821	2669			14727								
		OBS	0044	0500	33731	2669			14700								
		OBS	0047	0598	34151	2691			14746								
		STD	0050	0608	3419	2692	0011491	0083	14751								
		OBS	0050	0608	34186	2692			14751								
		OBS	0062	0639	34253	2693			14767								
		STD	0075	0642	3425	2693	0011440	0111	14770								
		OBS	0075	0642	34253	2693			14770								
		OBS	0078	0647	34279	2694			14773								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	42465N	050230W		150	20	05	20	215	1968	002	10206	0494	1	21	2	2		X2	0	3		0167

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S04	095	094	083	7	28	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCO
		STD	0000	0777	3408	2661	0014409	0000	14808								
215		OBS	0000	0777	34080	2661			14808								
		STD	0010	0936	3459	2676	0012982	0013	14877								
		OBS	0010	0936	34590	2676			14877								
		STD	0020	1007	3478	2679	0012698	0026	14907								
001		OBS	0020	1007	34785	2679			14907								
		OBS	0025	1063	34980	2685			14930								
		STD	0030	1124	3513	2685	0012157	0039	14955								
		OBS	0030	1124	35130	2685			14955								
		OBS	0044	1211	35340	2685			14990								
		STD	0050	0913	3492	2705	0010260	0061	14879								
		OBS	0050	0913	34920	2705			14879								
		OBS	0065	0608	34220	2695			14754								
		STD	0075	0667	3436	2698	0010930	0087	14781								
		OBS	0075	0667	34365	2698			14781								
		STD	0100	0852	3488	2712	0009726	0113	14864								
		OBS	0100	0852	34880	2712			14864								
		OBS	0110	0800	34802	2714			14845								
		STD	0125	0790	3478	2714	0009604	0137	14843								
		OBS	0125	0790	34780	2714			14843								
		OBS	0136	0768	34730	2713			14836								
		OBS	0141	0695	34590	2712			14806								
		STD	0150	0673	3462	2718	0009230	0161	14799								
		OBS	0150	0673	34619	2718			14799								
		OBS	0175	0837	35065	2729			14873								
		STD	0200	0756	3496	2733	0007911	0204	14845								
		OBS	0200	0756	34960	2733			14845								
		OBS	0207	0668	34820	2734			14810								
		OBS	0227	0669	34872	2738			14814								
		OBS	0238	0725	35030	2743			14840								
		STD	0250	0718	3500	2742	0007131	0241	14839								
		OBS	0250	0718	35005	2742			14839								
		OBS	0285	0639	34931	2747			14812								
		STD	0300	0638	3495	2748	0006558	0276	14815								
		OBS	0300	0638	34946	2748			14815								
		OBS	0368	0547	34854	2752			14788								
		OBS	0371	0510	34856	2757			14773								
		STD	0400	0507	3488	2760	0005508	0336	14777								
		OBS	0400	0507	34883	2760			14777								
		OBS	0440	0496	34892	2762			14780								
		OBS	0450	0468	34900	2765			14770								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR,1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318	039	EV	42360N	050220W		150	20	05	20	228	1968	002	10207	1829	1	22	3	2		X2	0	3		0168

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	00	S00	095	094	083	7	36	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔO DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	CODE
		STD	0000	0825	3394	2642	0016129	0000	14825								
228		OBS	0000	0825	33939	2642			14825								
		STD	0010	0872	3414	2651	0015351	0015	14847								
		OBS	0010	0872	34139	2651			14847								
		STD	0020	1139	3512	2682	0012477	0029	14958								
002		OBS	0020	1139	35119	2682			14958								
		OBS	0025	1213	35299	2681			14987								
		STD	0030	1225	3532	2681	0012551	0042	14992								
		OBS	0030	1225	35324	2681			14992								
		OBS	0037	1227	35339	2682			14994								
		STD	0050	0808	3445	2685	0012182	0066	14833								
		OBS	0050	0808	34449	2685			14833								
		OBS	0053	0697	34339	2692			14789								
		STD	0075	0698	3451	2706	0010240	0094	14796								
		OBS	0075	0698	34512	2706			14796								
		OBS	0085	0698	34514	2706			14797								
		STD	0100	0640	3450	2712	0009643	0119	14777								
		OBS	0100	0640	34496	2712			14777								
		STD	0125	0691	3470	2722	0008828	0142	14804								
		OBS	0125	0691	34699	2722			14804								
		OBS	0140	0592	34569	2724			14765								
		STD	0150	0631	3466	2726	0008387	0164	14783								
		OBS	0150	0631	34659	2726			14783								
		OBS	0180	0716	34879	2732			14825								
		STD	0200	0673	3485	2736	0007596	0204	14811								
		OBS	0200	0673	34849	2736			14811								
		OBS	0245	0618	34861	2744			14796								
		STD	0250	0618	3486	2744	0006850	0240	14797								
		OBS	0250	0618	34862	2744			14797								
		OBS	0270	0631	34909	2746			14806								
		OBS	0290	0581	34889	2751			14789								
		STD	0300	0589	3491	2752	0006183	0273	14795								
		OBS	0300	0589	34912	2752			14795								
		OBS	0330	0637	35025	2754			14820								
		OBS	0365	0597	34979	2756			14809								
		OBS	0385	0509	34969	2766			14777								
		STD	0400	0516	3498	2766	0004907	0328	14782								
		OBS	0400	0516	34979	2766			14782								
		STD	0500	0504	3499	2768	0004809	0377	14794								
		OBS	0500	0504	34988	2768			14794								
		STD	0600	0523	3509	2774	0004418	0423	14820								
		OBS	0600	0523	35089	2774			14820								
		STD	0700	0478	3504	2776	0004316	0466	14817								
		OBS	0700	0478	35043	2776			14817								
		STD	0800	0440	3500	2777	0004258	0509	14817								
		OBS	0800	0440	35002	2777			14817								
		STD	0900	0418	3498	2777	0004269	0552	14825								
		OBS	0900	0418	34979	2777			14825								
		STD	1000	0416	3498	2778	0004290	0595	14841								
		OBS	1000	0416	34985	2778			14841								
		STD	1100	0391	3495	2778	0004321	0638	14846								
		OBS	1100	0391	34952	2778			14846								
		STD	1200	0389	3496	2779	0004343	0681	14862								
		OBS	1200	0389	34958	2779			14862								
		STD	1300	0384	3496	2779	0004363	0725	14877								
		OBS	1300	0384	34959	2779			14877								
		STD	1400	0380	3496	2780	0004384	0768	14892								
		OBS	1400	0380	34961	2780			14892								
		STD	1500	0377	3497	2780	0004389	0812	14908								
		OBS	1500	0377	34966	2780			14908								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	42250N	050210W		150	20	05	21	005	1968	002	10208	2725	1	14	2	2		X2	0	3		0169

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	14	S06	095	083	078	7	31	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOUND
		STD	0000	0732	3350	2621	0018130	0000	14783								
005		OBS	0000	0732	33498	2621			14783								
		STD	0010	0703	3349	2624	0017854	0018	14773								
		OBS	0010	0703	33486	2624			14773								
		STD	0020	0645	3366	2646	0015839	0034	14754								
003		OBS	0020	0645	33659	2646			14754								
		OBS	0024	0558	33739	2663			14721								
		OBS	0025	0579	33779	2664			14730								
		STD	0030	0572	3410	2690	0011643	0048	14733								
		OBS	0030	0572	34104	2690			14733								
		STD	0050	0647	3432	2697	0010990	0071	14769								
		OBS	0050	0647	34318	2697			14769								
		STD	0075	0577	3434	2708	0010020	0097	14745								
		OBS	0075	0577	34337	2708			14745								
		OBS	0090	0577	34339	2708			14748								
		STD	0100	0631	3450	2714	0009506	0121	14773								
		OBS	0100	0631	34499	2714			14773								
		OBS	0115	0638	34519	2714			14779								
		STD	0125	0562	3454	2726	0008412	0144	14750								
		OBS	0125	0562	34537	2726			14750								
		STD	0150	0524	3452	2729	0008124	0164	14738								
		OBS	0150	0524	34519	2729			14738								
		OBS	0161	0582	34626	2730			14765								
		STD	0200	0359	3449	2745	0006618	0201	14677								
		OBS	0200	0359	34492	2745			14677								
		OBS	0240	0633	34969	2751			14803								
		STD	0250	0578	3487	2750	0006296	0234	14781								
		OBS	0250	0578	34869	2750			14781								
		OBS	0258	0527	34834	2753			14761								
		STD	0300	0517	3488	2758	0005530	0263	14765								
		OBS	0300	0517	34880	2758			14765								
		STD	0400	0500	3494	2765	0005008	0316	14775								
		OBS	0400	0500	34939	2765			14775								
		STD	0500	0497	3501	2770	0004595	0364	14791								
		OBS	0500	0497	35006	2770			14791								
		STD	0600	0477	3500	2773	0004478	0409	14800								
		OBS	0600	0477	35005	2773			14800								
		STD	0700	0469	3503	2776	0004274	0453	14813								
		OBS	0700	0469	35034	2776			14813								
		STD	0800	0461	3503	2777	0004307	0496	14827								
		OBS	0880	0455	35028	2777			14837								
		STD	0900	0439	3501	2778	0004261	0539	14834								
		OBS	0900	0439	35014	2778			14834								
		STD	1000	0426	3500	2778	0004270	0581	14845								
		OBS	1000	0426	35005	2778			14845								
		STD	1100	0417	3500	2779	0004292	0624	14858								
		OBS	1100	0417	35000	2779			14858								
		STD	1200	0404	3500	2780	0004236	0667	14869								
		OBS	1200	0404	34998	2780			14869								
		STD	1300	0398	3499	2780	0004283	0709	14883								
		OBS	1300	0398	34994	2780			14883								
		STD	1400	0390	3499	2781	0004312	0752	14897								
		OBS	1400	0390	34988	2781			14897								
		STD	1500	0383	3499	2782	0004296	0796	14911								
		OBS	1500	0383	34990	2782			14911								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	42120N	050210W		150	20	05	21	023	1968	002	10209	3109	1	12	2	3		X2	0	3		0170

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	13	S06	081	083	078	7	29	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCO
		STD	0000	0676	3330	2613	0018881	0000	14759								
023		OBS	0000	0676	33300	2613			14759								
		STD	0010	0651	3332	2618	0018451	0018	14751								
		OBS	0010	0651	33318	2618			14751								
		STD	0020	0626	3334	2623	0018001	0036	14743								
003		OBS	0020	0626	33338	2623			14743								
		OBS	0025	0598	33397	2631			14733								
		STD	0030	0548	3349	2645	0015954	0053	14715								
		OBS	0030	0548	33491	2645			14715								
		STD	0050	0388	3390	2694	0011239	0081	14657								
		OBS	0050	0388	33898	2694			14657								
		STD	0075	0482	3424	2711	0009678	0107	14705								
		OBS	0075	0482	34238	2711			14705								
		OBS	0090	0606	34498	2717			14761								
		STD	0100	0602	3451	2719	0009039	0130	14762								
		OBS	0100	0602	34513	2719			14762								
		OBS	0120	0485	34428	2726			14716								
		STD	0125	0531	3452	2728	0008186	0152	14737								
		OBS	0125	0531	34518	2728			14737								
		STD	0150	0505	3458	2736	0007450	0171	14731								
		OBS	0150	0505	34581	2736			14731								
		OBS	0162	0551	34678	2738			14753								
		OBS	0171	0509	34688	2744			14738								
		STD	0200	0507	3474	2748	0006348	0206	14742								
		OBS	0200	0507	34739	2748			14742								
		STD	0250	0508	3481	2754	0005905	0236	14752								
		OBS	0250	0508	34808	2754			14752								
		STD	0300	0497	3488	2760	0005319	0264	14757								
		OBS	0300	0497	34877	2760			14757								
		STD	0400	0501	3497	2767	0004812	0315	14776								
		OBS	0400	0501	34967	2767			14776								
		STD	0500	0485	3498	2770	0004661	0362	14786								
		OBS	0500	0485	34978	2770			14786								
		STD	0600	0436	3493	2771	0004553	0409	14782								
		OBS	0600	0436	34928	2771			14782								
		STD	0700	0414	3494	2775	0004289	0453	14789								
		OBS	0700	0414	34943	2775			14789								
		STD	0800	0415	3496	2776	0004254	0495	14807								
		OBS	0800	0415	34963	2776			14807								
		STD	0900	0416	3498	2777	0004247	0538	14824								
		OBS	0900	0416	34978	2777			14824								
		STD	1000	0398	3496	2778	0004247	0580	14833								
		OBS	1000	0398	34961	2778			14833								
		STD	1100	0393	3496	2778	0004291	0623	14847								
		OBS	1100	0393	34960	2778			14847								
		STD	1200	0388	3496	2779	0004296	0666	14862								
		OBS	1200	0388	34963	2779			14862								
		STD	1300	0383	3496	2780	0004316	0709	14877								
		OBS	1300	0383	34963	2780			14877								
		STD	1400	0380	3496	2780	0004349	0752	14892								
		OBS	1400	0380	34965	2780			14892								
		STD	1500	0378	3497	2781	0004392	0796	14908								
		OBS	1500	0378	34968	2781			14908								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR,1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		HOOC STATION NUMBER
318039		EV	41520N	050210W		150	10	05	21	045	1968	002	10210	3840	1	17	2	3		X6	0	3		0171

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	50	08	508	064	039	039	6	42	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ ΔO DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0591	3300	2601	0020077	0000	14721								
045		OBS	0000	0591	33002	2601			14721								
		STD	0010	0568	3302	2605	0019717	0019	14713								
		OBS	0010	0568	33017	2605			14713								
		STD	0020	0561	3322	2621	0018143	0038	14715								
003		OBS	0020	0561	33217	2621			14715								
		OBS	0025	0598	33417	2633			14733								
		STD	0030	0618	3343	2631	0017253	0056	14742								
		OBS	0030	0618	33427	2631			14742								
		OBS	0041	0299	33457	2668			14611								
		STD	0050	0458	3365	2667	0013805	0087	14683								
		OBS	0050	0458	33650	2667			14683								
		STD	0075	0851	3436	2671	0013543	0121	14853								
		OBS	0075	0851	34357	2671			14853								
		OBS	0081	0757	34277	2679			14817								
		STD	0100	1024	3501	2694	0011512	0153	14929								
		OBS	0100	1024	35007	2694			14929								
		OBS	0111	1017	34997	2694			14928								
		STD	0125	0828	3462	2695	0011364	0181	14855								
		OBS	0125	0828	34617	2695			14855								
		OBS	0133	0790	34547	2695			14841								
		STD	0150	0859	3479	2704	0010554	0209	14874								
		OBS	0150	0859	34795	2704			14874								
		OBS	0155	0919	34957	2707			14899								
		OBS	0174	0695	34617	2714			14812								
		OBS	0180	0725	34677	2715			14826								
		STD	0200	0722	3471	2718	0009265	0258	14828								
		OBS	0200	0722	34713	2718			14828								
		OBS	0216	0722	34724	2719			14831								
		OBS	0227	0663	34724	2727			14810								
		OBS	0231	0696	34757	2725			14824								
		STD	0250	0697	3476	2726	0008640	0303	14827								
		OBS	0250	0697	34762	2726			14827								
		OBS	0273	0515	34743	2748			14758								
		STD	0300	0570	3481	2746	0006700	0341	14785								
		OBS	0300	0570	34810	2746			14785								
		OBS	0308	0593	34826	2745			14796								
		OBS	0363	0477	34737	2751			14757								
		OBS	0376	0547	34857	2753			14789								
		OBS	0380	0488	34772	2753			14765								
		STD	0400	0450	3472	2753	0006081	0405	14752								
		OBS	0400	0450	34717	2753			14752								
		OBS	0440	0412	34744	2759			14743								
		STD	0500	0466	3489	2765	0005086	0461	14777								
		OBS	0500	0466	34890	2765			14777								
		STD	0600	0439	3494	2771	0004531	0509	14783								
		OBS	0600	0439	34936	2771			14783								
		OBS	0650	0475	34980	2771			14807								
		STD	0700	0461	3497	2772	0004617	0555	14809								
		OBS	0700	0461	34974	2772			14809								
		STD	0800	0449	3500	2775	0004400	0600	14821								
		OBS	0800	0449	34998	2775			14821								
		STD	0900	0457	3503	2777	0004397	0644	14841								
		OBS	0900	0457	35027	2777			14841								
		STD	1000	0431	3500	2778	0004344	0688	14847								
		OBS	1000	0431	35003	2778			14847								
		STD	1100	0421	3500	2778	0004364	0731	14859								
		OBS	1100	0421	34997	2778			14859								
		STD	1200	0409	3499	2779	0004321	0775	14871								
		OBS	1200	0409	34995	2779			14871								
		STD	1300	0389	3497	2779	0004361	0818	14879								
		OBS	1300	0389	34968	2779			14879								
		STD	1400	0380	3497	2781	0004279	0861	14892								
		OBS	1400	0380	34975	2781			14892								
		STD	1500	0381	3498	2781	0004342	0904	14910								
		OBS	1500	0381	34980	2781			14910								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR.	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	41400N	050200W		150	10	05	21	061	1968	002	10211	4096	1	17	2	3		X4	0	3		0172

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	09	S09	047	083	083	6	37	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔ0 DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0864	3381	2626	0017659	0000	14838								
061		OBS	0000	0864	33810	2626			14838								
		OBS	0005	0868	33861	2630			14841								
		STD	0010	1088	3482	2667	0013799	0015	14935								
003		OBS	0010	1088	34816	2667			14935								
		STD	0020	1290	3550	2682	0012483	0028	15015								
		OBS	0020	1290	35496	2682			15015								
		OBS	0025	1331	35616	2682			15031								
		STD	0030	1350	3568	2683	0012323	0041	15039								
		OBS	0030	1350	35680	2683			15039								
		STD	0050	1380	3574	2682	0012572	0066	15053								
		OBS	0050	1380	35736	2682			15053								
		STD	0075	1376	3573	2682	0012635	0097	15055								
		OBS	0075	1376	35726	2682			15055								
		STD	0100	1320	3564	2687	0012218	0128	15040								
		OBS	0100	1320	35641	2687			15040								
		STD	0125	1287	3557	2688	0012171	0159	15032								
		OBS	0125	1287	35569	2688			15032								
		STD	0150	1233	3544	2688	0012170	0189	15016								
		OBS	0150	1233	35438	2688			15016								
		STD	0200	1206	3544	2693	0011813	0249	15015								
		OBS	0200	1206	35436	2693			15015								
		OBS	0230	1228	35476	2692			15028								
		STD	0250	1227	3542	2688	0012455	0310	15030								
		OBS	0250	1227	35420	2688			15030								
		STD	0300	0972	3507	2707	0010647	0368	14944								
		OBS	0300	0972	35066	2707			14944								
		OBS	0315	0841	35041	2726			14897								
		OBS	0334	0934	35187	2723			14937								
		OBS	0370	0903	35130	2723			14931								
		STD	0400	0773	3490	2725	0008960	0466	14883								
		OBS	0400	0773	34898	2725			14883								
		OBS	0435	0564	34696	2738			14804								
		OBS	0457	0563	34775	2744			14808								
		OBS	0470	0536	34796	2749			14800								
		OBS	0490	0572	34886	2752			14819								
		STD	0500	0566	3488	2752	0006420	0543	14818								
		OBS	0500	0566	34876	2752			14818								
		OBS	0540	0502	34834	2756			14798								
		STD	0600	0498	3490	2762	0005499	0602	14807								
		OBS	0600	0498	34901	2762			14807								
		STD	0700	0498	3498	2768	0005062	0655	14824								
		OBS	0700	0498	34976	2768			14824								
		STD	0800	0474	3497	2770	0004910	0705	14831								
		OBS	0800	0474	34971	2770			14831								
		STD	0900	0444	3496	2773	0004751	0753	14835								
		OBS	0900	0444	34956	2773			14835								
		OBS	0930	0446	34981	2774			14841								
		OBS	0950	0471	35016	2774			14855								
		STD	1000	0472	3502	2774	0004760	0801	14864								
		OBS	1000	0472	35018	2774			14864								
		STD	1100	0453	3501	2776	0004695	0848	14873								
		OBS	1100	0453	35008	2776			14873								
		STD	1200	0436	3500	2777	0004618	0894	14883								
		OBS	1200	0436	35002	2777			14883								
		STD	1300	0422	3499	2778	0004586	0941	14893								
		OBS	1300	0422	34995	2778			14893								
		STD	1400	0407	3497	2778	0004650	0987	14904								
		OBS	1400	0407	34972	2778			14904								
		STD	1500	0406	3498	2778	0004703	1033	14920								
		OBS	1500	0406	34976	2778			14920								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPL INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	48200N	046100W		149	86	05	23	047	1968	002	10212	1189	1	28	5	3		X2	0	3		0173

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	28	S30	020	017	017	6	21	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOUND
		STD	0000	0226	3372	2695	0011180	0000	14576								
047		OBS	0000	0226	33717	2695			14576								
		STD	0010	0217	3373	2697	0011012	0011	14574								
		OBS	0010	0217	33731	2697			14574								
		STD	0020	0200	3383	2705	0010165	0021	14570								
002		OBS	0020	0200	33826	2705			14570								
		OBS	0025	0199	33895	2711			14571								
		STD	0030	0192	3396	2717	0009111	0031	14570								
		OBS	0030	0192	33958	2717			14570								
		OBS	0040	0177	34097	2729			14567								
		STD	0050	0218	3433	2745	0006476	0046	14590								
		OBS	0050	0218	34333	2745			14590								
		STD	0075	0243	3441	2749	0006078	0062	14606								
		OBS	0075	0243	34414	2749			14606								
		STD	0100	0295	3453	2754	0005618	0077	14634								
		OBS	0100	0295	34535	2754			14634								
		STD	0125	0326	3464	2760	0005113	0090	14653								
		OBS	0125	0326	34642	2760			14653								
		STD	0150	0358	3470	2761	0004982	0103	14672								
		OBS	0150	0358	34702	2761			14672								
		STD	0200	0398	3481	2766	0004622	0127	14698								
		OBS	0200	0398	34810	2766			14698								
		STD	0250	0417	3486	2768	0004501	0150	14715								
		OBS	0250	0417	34860	2768			14715								
		STD	0300	0438	3491	2770	0004396	0172	14733								
		OBS	0300	0438	34911	2770			14733								
		STD	0400	0447	3495	2771	0004330	0215	14753								
		OBS	0400	0447	34947	2771			14753								
		STD	0500	0435	3495	2773	0004297	0259	14765								
		OBS	0500	0435	34948	2773			14765								
		STD	0600	0417	3494	2774	0004249	0301	14774								
		OBS	0600	0417	34940	2774			14774								
		STD	0700	0397	3493	2776	0004153	0343	14782								
		OBS	0700	0397	34935	2776			14782								
		STD	0800	0388	3493	2777	0004140	0385	14795								
		OBS	0800	0388	34935	2777			14795								
		STD	0900	0377	3493	2778	0004100	0426	14807								
		OBS	0900	0377	34935	2778			14807								
		STD	1000	0375	3493	2778	0004165	0467	14823								
		OBS	1000	0375	34935	2778			14823								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MD	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	48020N	046090W		149	86	05	23	067	1968	002	10213	1152	1	28	5	3		X1	0	3		0174

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	S0	28	S30	027	017	017	6	21	·

MESSENGR TIME or HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	ΣΔD DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STO	0000	0172	3331	2667	0013848	0000	14547								
067		OBS	0000	0172	33314	2667			14547								
		STO	0010	0171	3332	2667	0013823	0013	14548								
		OBS	0010	0171	33316	2667			14548								
		STO	0020	0166	3333	2668	0013671	0027	14548								
002		OBS	0020	0166	33332	2668			14548								
		OBS	0025	0166	33410	2675			14550								
		STO	0030	0084	3343	2682	0012382	0040	14514								
		OBS	0030	0084	33434	2682			14514								
		STO	0050	0217	3411	2727	0008128	0061	14586								
		OBS	0050	0217	34114	2727			14586								
		STO	0075	0258	3438	2745	0006423	0079	14612								
		OBS	0075	0258	34384	2745			14612								
		STO	0100	0292	3455	2756	0005446	0094	14633								
		OBS	0100	0292	34554	2756			14633								
		STO	0125	0377	3471	2760	0005057	0107	14676								
		OBS	0125	0377	34714	2760			14676								
		STO	0150	0398	3477	2763	0004844	0119	14689								
		OBS	0150	0398	34774	2763			14689								
		STO	0200	0436	3486	2766	0004640	0143	14715								
		OBS	0200	0436	34861	2766			14715								
		STO	0250	0452	3490	2768	0004550	0166	14730								
		OBS	0250	0452	34904	2768			14730								
		STO	0300	0451	3493	2770	0004370	0188	14738								
		OBS	0300	0451	34934	2770			14738								
		STO	0400	0429	3492	2772	0004304	0232	14746								
		OBS	0400	0429	34924	2772			14746								
		STO	0500	0426	3494	2773	0004277	0274	14761								
		OBS	0500	0426	34936	2773			14761								
		STO	0600	0409	3493	2775	0004202	0317	14771								
		OBS	0600	0409	34934	2775			14771								
		STO	0700	0392	3492	2775	0004198	0359	14780								
		OBS	0700	0392	34921	2775			14780								
		STO	0800	0383	3492	2776	0004175	0401	14793								
		OBS	0800	0383	34923	2776			14793								
		STO	0900	0375	3492	2777	0004202	0443	14806								
		OBS	0900	0375	34918	2777			14806								
		STO	1000	0366	3493	2779	0004063	0484	14819								
		OBS	1000	0366	34934	2779			14819								
		OBS	1040	0365	34941	2780			14825								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	47220N	046070W		149	76	05	23	109	1968	002	10214	0457	1	28	6	3		X7	0	3		0175

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	27	S30	044	017	017	5	22	

MESSENGR TIME or HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SEC
		STD	0000	0155	3335	2671	0013441	0000	14540								
109		OBS	0000	0155	33353	2671			14540								
		STD	0010	0137	3336	2673	0013252	0013	14534								
		OBS	0010	0137	33362	2673			14534								
		STD	0020	0136	3339	2675	0013009	0026	14536								
001		OBS	0020	0136	33393	2675			14536								
		OBS	0025	0092	33413	2680			14517								
		STD	0030	0070	3344	2683	0012246	0039	14508								
		OBS	0030	0070	33442	2683			14508								
		OBS	0040	0080	33663	2701			14517								
		OBS	0042	0047	33650	2701			14503								
		STD	0050	0149	3399	2723	0008552	0059	14554								
		OBS	0050	0149	33993	2723			14554								
		OBS	0059	0267	34195	2729			14611								
		OBS	0065	0116	34124	2735			14544								
		STD	0075	0167	3427	2744	0006559	0078	14570								
		OBS	0075	0167	34273	2744			14570								
		STD	0100	0415	3465	2751	0005900	0094	14687								
		OBS	0100	0415	34650	2751			14687								
		OBS	0115	0475	34663	2746			14714								
		STD	0125	0389	3455	2746	0006385	0109	14678								
		OBS	0125	0389	34553	2746			14678								
		OBS	0128	0290	34553	2756			14637								
		STD	0150	0297	3459	2758	0005238	0124	14644								
		OBS	0150	0297	34593	2758			14644								
		STD	0200	0358	3471	2762	0004935	0149	14680								
		OBS	0200	0358	34715	2762			14680								
		OBS	0240	0414	34823	2765			14712								
		STD	0250	0417	3483	2766	0004699	0173	14715								
		OBS	0250	0417	34833	2766			14715								
		STD	0300	0437	3487	2766	0004718	0197	14732								
		OBS	0300	0437	34866	2766			14732								
		OBS	0365	0455	34923	2769			14751								
		STD	0400	0437	3491	2770	0004455	0243	14749								
		OBS	0400	0437	34915	2770			14749								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47020N	046065W		149	76	05	23	130	1968	002	10215	0333	1	27	4	4		X2	0	3		0176

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	27	S28	064	033	033	6	19	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	D2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0837	3446	2682	0012419	0000	14836								
130		OBS	0000	0837	34462	2682			14836								
		STD	0010	0837	3446	2682	0012437	0012	14838								
		OBS	0010	0837	34462	2682			14838								
		STD	0020	0837	3446	2682	0012465	0024	14840								
001		OBS	0020	0837	34461	2682			14840								
		OBS	0025	0837	34462	2682			14840								
		STD	0030	0837	3446	2682	0012465	0037	14841								
		OBS	0030	0837	34463	2682			14841								
		STD	0050	0838	3448	2683	0012411	0062	14845								
		OBS	0050	0838	34477	2683			14845								
		STD	0075	0847	3452	2685	0012260	0093	14853								
		OBS	0075	0847	34522	2685			14853								
		OBS	0080	0856	34552	2686			14858								
		STD	0100	0857	3474	2700	0010837	0121	14864								
		OBS	0100	0857	34740	2700			14864								
		STD	0125	0856	3486	2710	0009946	0147	14869								
		OBS	0125	0856	34865	2710			14869								
		OBS	0135	0855	34847	2709			14870								
		STD	0150	0776	3480	2718	0009265	0171	14842								
		OBS	0150	0776	34805	2718			14842								
		OBS	0194	0575	34612	2730			14767								
		STD	0200	0575	3462	2731	0008028	0215	14769								
		OBS	0200	0575	34622	2731			14769								
		OBS	0207	0576	34650	2733			14771								
		OBS	0215	0539	34652	2737			14757								
		OBS	0230	0571	34738	2740			14773								
		STD	0250	0557	3474	2742	0006977	0252	14771								
		OBS	0250	0557	34742	2742			14771								
		STD	0300	0496	3489	2762	0005192	0283	14756								
		OBS	0300	0496	34893	2762			14756								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47000N	046450W		149	76	05	23	239	1968	002	10216	0860	1	28	3	3		X2	0	3		0177

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	27	S20	064	017	017	6	20	

MESSENGR TIME OF NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10²	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOD
		STD	0000	0146	3316	2656	0014844	0000	14533								
239		OBS	0000	0146	33160	2656			14533								
		STD	0010	0147	3316	2656	0014854	0014	14536								
		OBS	0010	0147	33160	2656			14536								
		STD	0020	0144	3316	2656	0014800	0029	14536								
002		OBS	0020	0144	33164	2656			14536								
		OBS	0025	0116	33184	2660			14524								
		STD	0030	0110	3319	2661	0014419	0044	14523								
		OBS	0030	0110	33187	2661			14523								
		STD	0050	0054	3329	2672	0013300	0072	14502								
		OBS	0050	0054	33292	2672			14502								
		OBS	0062	0017	33612	2700			14492								
		STD	0075	0054	3385	2717	0009035	0099	14514								
		OBS	0075	0054	33852	2717			14514								
		STD	0100	0160	3411	2731	0007737	0120	14569								
		OBS	0100	0160	34112	2731			14569								
		STD	0125	0185	3425	2741	0006869	0139	14586								
		OBS	0125	0185	34252	2741			14586								
		STD	0150	0225	3442	2751	0005922	0155	14610								
		OBS	0150	0225	34420	2751			14610								
		STD	0200	0335	3465	2759	0005229	0183	14669								
		OBS	0200	0335	34646	2759			14669								
		STD	0250	0379	3473	2761	0005080	0208	14697								
		STD	0300	0421	3482	2764	0004886	0233	14724								
		OBS	0300	0421	34820	2764			14724								
		OBS	0350	0462	34920	2768			14751								
		STD	0400	0467	3494	2768	0004636	0281	14762								
		OBS	0400	0467	34937	2768			14762								
		STD	0500	0444	3492	2770	0004594	0327	14768								
		OBS	0500	0444	34922	2770			14768								
		STD	0600	0422	3493	2773	0004399	0372	14776								
		OBS	0600	0422	34927	2773			14776								
		STD	0700	0412	3494	2774	0004312	0416	14788								
		OBS	0700	0412	34937	2774			14788								
		STD	0800	0403	3494	2775	0004311	0459	14801								
		OBS	0800	0403	34936	2775			14801								
		OBS	0860	0401	34939	2776			14810								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDEX	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47000N	047000W		149	77	05	24	014	1968	002	10217	1207	1	28	3	3		X2	0	3		0178

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	50	27	S17	058	017	017	6	23	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	ΣΔD DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCD
		STD	0000	0113	3285	2634	0016962	0000	14515								
014		OBS	0000	0113	32855	2634			14515								
		STD	0010	0113	3285	2634	0016961	0017	14516								
		OBS	0010	0113	32855	2634			14516								
		STD	0020	0080	3308	2654	0015077	0033	14506								
002		OBS	0020	0080	33078	2654			14506								
		OBS	0025	0067	33140	2659			14502								
		STD	0030	0061	3315	2661	0014415	0047	14500								
		OBS	0030	0061	33151	2661			14500								
		STD	0050	0049	3321	2666	0013886	0076	14499								
		OBS	0050	0049	33211	2666			14499								
		OBS	0061	0022	33535	2694			14493								
		STD	0075	0069	3376	2709	0009814	0105	14520								
		OBS	0075	0069	33761	2709			14520								
		STD	0100	0086	3393	2722	0008628	0128	14534								
		OBS	0100	0086	33930	2722			14534								
		STD	0125	0171	3417	2735	0007378	0148	14579								
		OBS	0125	0171	34171	2735			14579								
		STD	0150	0217	3430	2742	0006783	0166	14605								
		OBS	0150	0217	34298	2742			14605								
		OBS	0180	0232	34460	2754			14619								
		STD	0200	0311	3458	2756	0005469	0197	14658								
		OBS	0200	0311	34584	2756			14658								
		STD	0250	0380	3475	2763	0004937	0223	14698								
		OBS	0250	0380	34750	2763			14698								
		OBS	0265	0408	34783	2763			14713								
		STD	0300	0391	3478	2765	0004837	0247	14711								
		OBS	0300	0391	34784	2765			14711								
		STD	0400	0460	3494	2770	0004513	0294	14759								
		OBS	0400	0460	34943	2770			14759								
		STD	0500	0460	3495	2770	0004560	0339	14775								
		OBS	0500	0460	34951	2770			14775								
		STD	0600	0442	3494	2772	0004499	0384	14784								
		OBS	0600	0442	34945	2772			14784								
		STD	0700	0410	3491	2773	0004478	0429	14787								
		OBS	0700	0410	34911	2773			14787								
		STD	0800	0406	3493	2775	0004379	0474	14802								
		OBS	0800	0406	34931	2775			14802								
		STD	0900	0404	3494	2775	0004407	0518	14818								
		OBS	0900	0404	34937	2775			14818								
		OBS	0925	0403	34931	2775			14822								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47000N	047150W		149	77	05	24	038	1968	002	10218	0914	1	27	3	2		X2	0	3		0179

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	S0	27	S14	054	017	017	6	24	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\pm 10^7$	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SECC
		STD	0000	0087	3290	2639	0016491	0000	14503								
038		OBS	0000	0087	32897	2639			14503								
		STD	0010	0097	3292	2640	0016336	0016	14510								
		OBS	0010	0097	32925	2640			14510								
002		OBS	0015	0111	32960	2642			14518								
		STD	0020	0067	3300	2648	0015592	0032	14499								
		OBS	0020	0067	33000	2648			14499								
		OBS	0025	0031	33040	2653			14484								
		STD	0030	0050	3309	2656	0014821	0047	14494								
		OBS	0030	0050	33090	2656			14494								
		STD	0050	0097	3333	2673	0013251	0075	14522								
		OBS	0050	0097	33330	2673			14522								
		OBS	0061	0051	33710	2706			14508								
		STD	0075	0092	3389	2718	0008971	0103	14532								
		OBS	0075	0092	33890	2718			14532								
		OBS	0094	0096	34090	2734			14539								
		STD	0100	0125	3412	2734	0007466	0124	14554								
		OBS	0100	0125	34116	2734			14554								
		STD	0125	0212	3433	2745	0006491	0141	14599								
		OBS	0125	0212	34330	2745			14599								
		STD	0150	0250	3439	2746	0006355	0157	14621								
		OBS	0150	0250	34390	2746			14621								
		OBS	0199	0347	34650	2758			14674								
		STD	0200	0396	3471	2758	0005349	0186	14696								
		OBS	0200	0396	34710	2758			14696								
		STD	0250	0490	3485	2759	0005381	0213	14745								
		OBS	0250	0490	34850	2759			14745								
		OBS	0280	0409	34739	2759			14715								
		STD	0300	0417	3478	2762	0005117	0239	14722								
		OBS	0300	0417	34784	2762			14722								
		STD	0400	0457	3492	2768	0004653	0288	14757								
		OBS	0400	0457	34919	2768			14757								
		STD	0500	0437	3493	2771	0004451	0334	14766								
		OBS	0500	0437	34930	2771			14766								
		STD	0600	0420	3493	2773	0004343	0378	14775								
		OBS	0600	0420	34932	2773			14775								
		STD	0700	0415	3494	2774	0004317	0421	14790								
		OBS	0700	0415	34941	2774			14790								
		STD	0800	0415	3494	2775	0004397	0465	14806								
		OBS	0800	0415	34943	2775			14806								
		OBS	0840	0415	34940	2774			14813								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	46590N	047299W		149	67	05	24	066	1968	002	10219	0220	1	30	4	3		X2	0	3		0180

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	28	S15	061	017	017	6	15	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0108	3271	2622	0018039	0000	14510								
066		OBS	0000	0108	32709	2622			14510								
		STD	0010	0108	3271	2622	0018039	0018	14512								
		OBS	0010	0108	32709	2622			14512								
		STD	0020	0107	3271	2622	0018038	0036	14513								
001		OBS	0020	0107	32709	2622			14513								
		OBS	0025	0105	32709	2623			14513								
		STD	0030	0103	3271	2623	0018010	0054	14513								
		OBS	0030	0103	32709	2623			14513								
		OBS	0040	0093	32719	2624			14510								
		STD	0050	-0042	3277	2635	0016839	0089	14451								
		OBS	0050	-0042	32769	2635			14451								
		OBS	0058	-0096	32929	2650			14429								
		OBS	0065	-0097	33049	2659			14432								
		OBS	0070	-0030	33109	2662			14464								
		STD	0075	-0048	3321	2671	0013410	0126	14458								
		OBS	0075	-0048	33213	2671			14458								
		STD	0100	-0004	3370	2708	0009911	0155	14489								
		OBS	0100	-0004	33697	2708			14489								
		STD	0125	0088	3399	2726	0008198	0178	14539								
		OBS	0125	0088	33989	2726			14539								
		STD	0150	0163	3432	2748	0006212	0196	14582								
		OBS	0150	0163	34318	2748			14582								
		OBS	0190	0277	34439	2748			14640								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	46590N	047440W		149	67	05	24	078	1968	002	10220	0174	1	30	4	2		X2	0	3		0181

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	28	S18	047	017	017	6	12	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0115	3274	2625	0017822	0000	14514								
078		OBS	0000	0115	32743	2625			14514								
		STD	0010	0115	3274	2625	0017822	0017	14516								
		OBS	0010	0115	32743	2625			14516								
		STD	0020	0115	3274	2625	0017821	0035	14517								
001		OBS	0020	0115	32743	2625			14517								
		OBS	0025	0115	32743	2625			14518								
		STD	0030	0115	3274	2625	0017821	0053	14519								
		OBS	0030	0115	32743	2625			14519								
		STD	0050	0115	3274	2625	0017820	0089	14522								
		OBS	0050	0115	32743	2625			14522								
		OBS	0060	0115	32743	2625			14524								
		STD	0075	0097	3275	2626	0017689	0133	14518								
		OBS	0075	0097	32746	2626			14518								
		STD	0100	0017	3277	2632	0017095	0177	14486								
		OBS	0100	0017	32767	2632			14486								
		OBS	0118	-0137	33008	2657			14421								
		STD	0125	-0139	3303	2659	0014458	0216	14421								
		OBS	0125	-0139	33031	2659			14421								
		STD	0150	-0144	3311	2666	0013834	0251	14424								
		OBS	0150	-0144	33108	2666			14424								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	46590N	047590W		149	67	05	24	091	1968	002	10221	0137	1	30	6	2		X2	0	3		0182

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	29	S20		022	022	6	11	

MESSENGR TIME OF T HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0086	3273	2625	0017758	0000	14501								
091		OBS	0000	0086	32730	2625			14501								
		STD	0010	0086	3273	2625	0017757	0017	14502								
		OBS	0010	0086	32730	2625			14502								
		STD	0020	0086	3273	2625	0017756	0035	14504								
001		OBS	0020	0086	32730	2625			14504								
		OBS	0025	0086	32730	2625			14505								
		STD	0030	0075	3273	2626	0017655	0053	14501								
		OBS	0030	0075	32735	2626			14501								
		OBS	0035	0024	32747	2630			14478								
		STD	0050	0017	3283	2637	0016658	0087	14479								
		OBS	0050	0017	32827	2637			14479								
		OBS	0063	-0118	33047	2660			14421								
		STD	0075	-0083	3328	2677	0012788	0124	14443								
		OBS	0075	-0083	33277	2677			14443								
		STD	0100	0020	3355	2695	0011136	0154	14498								
		OBS	0100	0020	33552	2695			14498								
		OBS	0110	0024	33557	2695			14502								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	46590N	048135W		149	68	05	24	104	1968	002	10222	0117	1	30	8	3		X2	0	3		0183

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S18	064	039	039	7	11	

MESSENGR TIME OF T HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0135	3273	2623	0018012	0000	14523								
104		OBS	0000	0135	32734	2623			14523								
		STD	0010	0135	3273	2623	0018021	0018	14524								
		OBS	0010	0135	32733	2623			14524								
		STD	0020	0135	3273	2623	0018012	0036	14526								
001		OBS	0020	0135	32734	2623			14526								
		OBS	0025	0135	32734	2623			14527								
		STD	0030	0135	3273	2623	0018013	0054	14528								
		OBS	0030	0135	32734	2623			14528								
		OBS	0048	0129	32741	2624			14528								
		STD	0050	0055	3275	2628	0017450	0089	14495								
		OBS	0050	0055	32748	2628			14495								
		OBS	0056	-0046	32826	2639			14451								
		OBS	0070	-0024	33266	2674			14469								
		STD	0075	-0005	3329	2675	0013031	0127	14479								
		OBS	0075	-0005	33288	2675			14479								
		STD	0100	-0004	3329	2675	0012988	0160	14484								
		OBS	0100	-0004	33293	2675			14484								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44290N	049200W		149	49	05	24	225	1968	002	10223	0064	1	23	2	2		X0	0	3		0184

WATER COLDR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S18	108	061	056	7	08	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-E10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0321	3276	2611	0019153	0000	14605								
225		OBS	0000	0321	32764	2611			14605								
		STD	0010	0316	3276	2611	0019104	0019	14604								
		OBS	0010	0316	32765	2611			14604								
		STD	0020	0256	3276	2616	0018634	0038	14580								
001		OBS	0020	0256	32763	2616			14580								
		OBS	0025	0246	32762	2617			14576								
		STD	0030	0239	3276	2617	0018546	0056	14574								
		OBS	0030	0239	32759	2617			14574								
		OBS	0043	0108	32805	2630			14519								
		STD	0050	0104	3298	2645	0015919	0091	14520								
		OBS	0050	0104	32985	2645			14520								
		OBS	0055	0104	32987	2645			14521								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44260N	049030W		149	49	05	24	235	1968	002	10224	0476	1	25	2	2		X0	0	3		0185

WATER COLDR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S16	122	044	044	7	24	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-E10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0156	3278	2625	0017758	0000	14533								
235		OBS	0000	0156	32785	2625			14533								
		STD	0010	0129	3279	2628	0017541	0017	14522								
		OBS	0010	0129	32792	2628			14522								
		STD	0020	0048	3282	2635	0016831	0034	14488								
002		OBS	0020	0048	32825	2635			14488								
		OBS	0025	0048	32847	2637			14489								
		STD	0030	0048	3286	2638	0016585	0051	14490								
		OBS	0030	0048	32857	2638			14490								
		STD	0050	-0009	3293	2646	0015768	0083	14468								
		OBS	0050	-0009	32928	2646			14468								
		OBS	0052	-0026	32949	2649			14461								
		STD	0075	0002	3357	2698	0010883	0117	14486								
		OBS	0075	0002	33573	2698			14486								
		STD	0100	0136	3381	2709	0009823	0143	14554								
		OBS	0100	0136	33815	2709			14554								
		OBS	0115	0108	33958	2722			14546								
		STD	0125	0124	3413	2735	0007399	0164	14558								
		OBS	0125	0124	34125	2735			14558								
		OBS	0135	0196	34170	2733			14592								
		STD	0150	0196	3417	2733	0007613	0183	14594								
		OBS	0150	0196	34166	2733			14594								
		OBS	0160	0196	34205	2736			14596								
		STD	0200	0263	3434	2742	0006830	0219	14634								
		OBS	0200	0263	34345	2742			14634								
		OBS	0242	0316	34435	2744			14665								
		STD	0250	0397	3460	2750	0006197	0252	14703								
		OBS	0250	0397	34605	2750			14703								
		OBS	0253	0355	34528	2748			14685								
		OBS	0262	0482	34755	2752			14743								
		OBS	0280	0494	34771	2752			14751								
		OBS	0290	0395	34657	2754			14710								
		STD	0300	0381	3467	2756	0005611	0281	14705								
		OBS	0300	0381	34667	2756			14705								
		STD	0400	0380	3469	2758	0005528	0337	14722								
		OBS	0400	0380	34688	2758			14722								
		OBS	0420	0381	34691	2758			14726								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44225N	048460W		149	48	05	25	008	1968	002	10225	2177	1	25	2	2		X0	0	3		0186

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S16	098	044	044	7	23	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ ΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0301	3298	2629	0017360	0000	14599								
008		OBS	0000	0301	32978	2629			14599								
		OBS	0001	0250	32940	2631			14577								
		STD	0010	0328	3330	2653	0015175	0016	14617								
002		OBS	0010	0328	33299	2653			14617								
		STD	0020	0276	3320	2649	0015486	0031	14595								
		OBS	0020	0276	33200	2649			14595								
		OBS	0025	0216	33181	2653			14569								
		STD	0030	0191	3320	2656	0014851	0046	14559								
		OBS	0030	0191	33200	2656			14559								
		STD	0050	0027	3350	2690	0011570	0073	14493								
		OBS	0050	0027	33500	2690			14493								
		STD	0075	0237	3391	2710	0009794	0099	14596								
		OBS	0075	0237	33915	2710			14596								
		STD	0100	0223	3416	2730	0007844	0121	14598								
		OBS	0100	0223	34160	2730			14598								
		OBS	0104	0262	34240	2733			14616								
		STD	0125	0223	3428	2740	0006954	0140	14603								
		OBS	0125	0223	34280	2740			14603								
		STD	0150	0316	3449	2749	0006164	0156	14651								
		OBS	0150	0316	34492	2749			14651								
		STD	0200	0341	3458	2753	0005781	0186	14671								
		OBS	0200	0341	34580	2753			14671								
		STD	0250	0417	3481	2764	0004870	0213	14714								
		OBS	0250	0417	34810	2764			14714								
		STD	0300	0439	3487	2766	0004738	0237	14733								
		OBS	0300	0439	34867	2766			14733								
		STD	0400	0454	3493	2769	0004561	0283	14756								
		OBS	0400	0454	34927	2769			14756								
		STD	0500	0430	3493	2772	0004389	0328	14763								
		OBS	0500	0430	34927	2772			14763								
		STD	0600	0409	3492	2773	0004309	0372	14770								
		OBS	0600	0409	34920	2773			14770								
		STD	0700	0395	3492	2775	0004274	0415	14781								
		OBS	0700	0395	34916	2775			14781								
		STD	0800	0382	3491	2776	0004226	0457	14792								
		OBS	0800	0382	34914	2776			14792								
		STD	0900	0376	3491	2776	0004266	0500	14806								
		OBS	0900	0376	34911	2776			14806								
		STD	1000	0376	3492	2777	0004301	0542	14823								
		OBS	1000	0376	34919	2777			14823								
		STD	1100	0370	3491	2777	0004336	0586	14837								
		OBS	1100	0370	34915	2777			14837								

REFERENCE CTRY CODE	REFERENCE ID. ND.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MD	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44190N	048300W		149	48	05	25	023	1968	002	10226	3234	1	25	2	4		X0	0	3		0187

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S16	125	039	039	7	28	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCOD
		STD	0000	0211	3282	2624	0017840	0000	14558								
023		OBS	0000	0211	32823	2624			14558								
		STD	0010	0225	3289	2629	0017453	0017	14566								
		OBS	0010	0225	32888	2629			14566								
		STD	0020	0162	3290	2634	0016901	0034	14540								
003		OBS	0020	0162	32903	2634			14540								
		OBS	0025	0263	33003	2635			14587								
		STD	0030	0246	3304	2639	0016483	0051	14581								
		OBS	0030	0246	33038	2639			14581								
		STD	0050	0035	3326	2671	0013423	0081	14493								
		OBS	0050	0035	33263	2671			14493								
		OBS	0055	-0016	33303	2677			14471								
		STD	0075	0049	3382	2715	0009277	0109	14511								
		OBS	0075	0049	33816	2715			14511								
		STD	0100	0176	3414	2733	0007615	0130	14577								
		OBS	0100	0176	34143	2733			14577								
		OBS	0110	0338	34324	2733			14651								
		STD	0125	0355	3441	2739	0007114	0149	14662								
		OBS	0125	0355	34412	2739			14662								
		STD	0150	0404	3458	2747	0006341	0166	14689								
		OBS	0150	0404	34583	2747			14689								
		OBS	0191	0509	34773	2751			14742								
		STD	0200	0493	3474	2750	0006198	0197	14737								
		OBS	0200	0493	34738	2750			14737								
		OBS	0205	0475	34738	2752			14730								
		OBS	0220	0515	34833	2755			14750								
		STD	0250	0476	3483	2759	0005346	0226	14739								
		OBS	0250	0476	34833	2759			14739								
		OBS	0260	0476	34853	2761			14741								
		STD	0300	0502	3494	2764	0004927	0252	14760								
		OBS	0300	0502	34937	2764			14760								
		STD	0400	0483	3496	2769	0004634	0299	14769								
		OBS	0400	0483	34962	2769			14769								
		STD	0500	0489	3502	2773	0004371	0344	14788								
		OBS	0500	0489	35023	2773			14788								
		STD	0600	0441	3496	2773	0004355	0388	14784								
		OBS	0600	0441	34963	2773			14784								
		STD	0700	0411	3496	2777	0004105	0430	14788								
		OBS	0700	0411	34963	2777			14788								
		STD	0800	0410	3496	2777	0004209	0472	14804								
		OBS	0800	0410	34961	2777			14804								
		STD	0900	0399	3496	2778	0004166	0514	14817								
		OBS	0900	0399	34962	2778			14817								
		STD	1000	0395	3496	2778	0004222	0556	14831								
		OBS	1000	0395	34960	2778			14831								
		STD	1100	0385	3496	2779	0004216	0598	14844								
		OBS	1100	0385	34956	2779			14844								
		OBS	1120	0382	34958	2779			14846								

REFERENCE: TYPE CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	44160N	048140W		149	48	05	25	038	1968	002	10227	3749	1	25	2	3		X0	0	3		0188

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S16	125	050	050	7	24	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0329	3298	2627	0017568	0000	14611								
038		OBS	0000	0329	32982	2627			14611								
		STD	0010	0329	3298	2627	0017574	0017	14613								
		OBS	0010	0329	32982	2627			14613								
		STD	0020	0323	3312	2639	0016475	0034	14614								
003		OBS	0020	0323	33122	2639			14614								
		OBS	0025	0315	33132	2640			14611								
		STD	0030	0311	3314	2641	0016235	0051	14610								
		OBS	0030	0311	33140	2641			14610								
		STD	0050	0104	3346	2683	0012294	0079	14527								
		OBS	0050	0104	33462	2683			14527								
		OBS	0059	0090	33788	2710			14527								
		STD	0075	0129	3394	2720	0008807	0105	14549								
		OBS	0075	0129	33942	2720			14549								
		STD	0100	0176	3420	2737	0007173	0125	14578								
		OBS	0100	0176	34202	2737			14578								
		STD	0125	0279	3454	2756	0005440	0141	14631								
		OBS	0125	0279	34542	2756			14631								
		OBS	0130	0415	34722	2757			14693								
		STD	0150	0458	3480	2759	0005271	0155	14715								
		OBS	0150	0458	34802	2759			14715								
		OBS	0185	0524	34882	2757			14749								
		STD	0200	0496	3487	2760	0005263	0181	14740								
		OBS	0200	0496	34867	2760			14740								
		STD	0250	0495	3492	2764	0004944	0206	14748								
		STD	0300	0486	3494	2767	0004709	0231	14753								
		OBS	0300	0486	34942	2767			14753								
		STD	0400	0446	3492	2770	0004517	0277	14753								
		OBS	0400	0446	34921	2770			14753								
		STD	0500	0417	3492	2772	0004311	0321	14757								
		OBS	0500	0417	34918	2772			14757								
		STD	0600	0403	3493	2775	0004175	0363	14768								
		OBS	0600	0403	34929	2775			14768								
		STD	0700	0403	3493	2775	0004261	0405	14784								
		OBS	0700	0403	34930	2775			14784								
		STD	0800	0392	3493	2776	0004245	0448	14796								
		OBS	0800	0392	34927	2776			14796								
		STD	0900	0383	3493	2777	0004184	0490	14809								
		OBS	0900	0383	34933	2777			14809								
		STD	1000	0382	3493	2777	0004306	0533	14826								
		OBS	1000	0382	34927	2777			14826								
		STD	1100	0380	3494	2778	0004265	0575	14842								
		OBS	1100	0380	34942	2778			14842								
		OBS	1150	0378	34942	2778			14849								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	44130N	047590W		149	47	05	25	050	1968	002	10228	3840	1	26	2	3		X0	0	3		0189

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S12	125	050	050	7	22	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	[illegible]
		STD	0000	0314	3305	2634	0016916	0000	14606								
050		OBS	0000	0314	33052	2634			14606								
		STD	0010	0313	3305	2634	0016913	0016	14607								
		OBS	0010	0313	33052	2634			14607								
		STD	0020	0258	3304	2638	0016553	0033	14585								
003		OBS	0020	0258	33041	2638			14585								
		OBS	0025	0216	33027	2640			14567								
		STD	0030	0167	3306	2647	0015735	0049	14546								
		OBS	0030	0167	33062	2647			14546								
		OBS	0043	0068	33502	2688			14510								
		STD	0050	0116	3376	2706	0010083	0075	14537								
		OBS	0050	0116	33762	2706			14537								
		STD	0075	0163	3408	2728	0008019	0098	14566								
		OBS	0075	0163	34077	2728			14566								
		STD	0100	0230	3434	2744	0006529	0116	14603								
		OBS	0100	0230	34342	2744			14603								
		STD	0125	0296	3450	2751	0005896	0132	14638								
		OBS	0125	0296	34502	2751			14638								
		STD	0150	0386	3467	2756	0005488	0146	14683								
		OBS	0150	0386	34672	2756			14683								
		STD	0200	0461	3481	2759	0005282	0173	14724								
		OBS	0200	0461	34812	2759			14724								
		STD	0250	0464	3491	2767	0004602	0197	14735								
		OBS	0250	0464	34915	2767			14735								
		STD	0300	0475	3492	2766	0004764	0221	14748								
		OBS	0300	0475	34917	2766			14748								
		STD	0400	0458	3493	2769	0004556	0267	14758								
		OBS	0400	0458	34934	2769			14758								
		STD	0500	0430	3493	2772	0004345	0312	14763								
		OBS	0500	0430	34934	2772			14763								
		STD	0600	0416	3492	2773	0004364	0355	14773								
		OBS	0600	0416	34923	2773			14773								
		STD	0700	0409	3494	2775	0004271	0399	14787								
		OBS	0700	0409	34938	2775			14787								
		STD	0800	0402	3493	2775	0004318	0442	14801								
		OBS	0800	0402	34933	2775			14801								
		STD	0900	0395	3493	2776	0004335	0485	14814								
		OBS	0900	0395	34932	2776			14814								
		STD	1000	0390	3494	2777	0004334	0528	14829								
		OBS	1000	0390	34937	2777			14829								
		STD	1100	0390	3494	2777	0004380	0572	14846								
		OBS	1100	0390	34942	2777			14846								

REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	DAY	HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	HGT	PER	SEA	WEATHER CODE	CLOUD CODES TYPE	AMT		NODC STATION NUMBER
318039	EV	44105N	047440W		149	47	05	25	063	1968	002	10229	3968	1	26	2	3		X0	0	3		0190

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S12	125	050	050	7	21	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	S CD
		STD	0000	0302	3305	2635	0016844	0000	14600								
063		OBS	0000	0302	33048	2635			14600								
		STD	0010	0314	3311	2639	0016469	0016	14608								
		OBS	0010	0314	33111	2639			14608								
		STD	0020	0300	3312	2641	0016274	0033	14604								
002		OBS	0020	0300	33122	2641			14604								
		OBS	0025	0286	33124	2642			14599								
		STD	0030	0256	3313	2645	0015860	0049	14587								
		OBS	0030	0256	33131	2645			14587								
		STD	0050	0095	3372	2704	0010270	0075	14527								
		OBS	0050	0095	33721	2704			14527								
		STD	0075	0136	3406	2729	0007933	0098	14554								
		OBS	0075	0136	34063	2729			14554								
		STD	0100	0228	3426	2738	0007142	0116	14601								
		OBS	0100	0228	34259	2738			14601								
		STD	0125	0296	3450	2751	0005905	0133	14638								
		OBS	0125	0296	34501	2751			14638								
		STD	0150	0361	3464	2756	0005470	0147	14672								
		OBS	0150	0361	34642	2756			14672								
		STD	0200	0468	3490	2765	0004701	0172	14729								
		OBS	0200	0468	34900	2765			14729								
		STD	0250	0468	3491	2767	0004649	0196	14737								
		OBS	0250	0468	34915	2767			14737								
		STD	0300	0469	3490	2765	0004814	0219	14745								
		OBS	0300	0469	34901	2765			14745								
		STD	0400	0446	3493	2770	0004437	0266	14753								
		OBS	0400	0446	34932	2770			14753								
		STD	0500	0416	3491	2772	0004354	0310	14757								
		OBS	0500	0416	34911	2772			14757								
		STD	0600	0397	3491	2774	0004247	0353	14765								
		OBS	0600	0397	34910	2774			14765								
		STD	0700	0389	3491	2775	0004255	0395	14778								
		OBS	0700	0389	34909	2775			14778								
		STD	0800	0383	3492	2776	0004192	0437	14793								
		OBS	0800	0383	34920	2776			14793								
		STD	0900	0378	3492	2777	0004209	0479	14807								
		OBS	0900	0378	34922	2777			14807								
		STD	1000	0378	3493	2777	0004270	0522	14824								
		OBS	1000	0378	34926	2777			14824								
		STD	1100	0374	3493	2778	0004311	0565	14839								
		OBS	1100	0374	34926	2778			14839								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44060N	047210W		149	47	05	25	080	1968	002	10230	4114	1	23	3	3		X6	0	3		0191

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S18	132	050	050	2	33	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SAL
		STD	0000	0511	3322	2628	0017550	0000	14691								
080		OBS	0000	0511	33220	2628			14691								
		STD	0010	0521	3326	2630	0017361	0017	14697								
		OBS	0010	0521	33260	2630			14697								
		STD	0020	0541	3334	2634	0017001	0034	14708								
002		OBS	0020	0541	33340	2634			14708								
		OBS	0025	0526	33330	2635			14703								
		STD	0030	0496	3327	2633	0017036	0051	14690								
		OBS	0030	0496	33270	2633			14690								
		OBS	0035	0461	33400	2647			14678								
		OBS	0039	0515	33610	2658			14704								
		STD	0050	0481	3390	2685	0012172	0080	14696								
		OBS	0050	0481	33900	2685			14696								
		STD	0075	0708	3460	2711	0009718	0108	14801								
		OBS	0075	0708	34600	2711			14801								
		STD	0100	0708	3465	2715	0009388	0132	14805								
		OBS	0100	0708	34650	2715			14805								
		STD	0125	0661	3460	2718	0009171	0155	14790								
		OBS	0125	0661	34600	2718			14790								
		OBS	0135	0532	34500	2726			14739								
		STD	0150	0625	3470	2730	0008006	0176	14781								
		OBS	0150	0625	34700	2730			14781								
		OBS	0164	0689	34800	2730			14810								
		OBS	0171	0522	34600	2735			14742								
		OBS	0180	0542	34620	2735			14752								
		STD	0200	0450	3448	2734	0007644	0215	14715								
		OBS	0200	0450	34480	2734			14715								
		OBS	0203	0556	34620	2733			14761								
		OBS	0230	0406	34470	2738			14702								
		STD	0250	0522	3471	2744	0006794	0252	14756								
		OBS	0250	0522	34710	2744			14756								
		OBS	0280	0263	34420	2748			14648								
		OBS	0289	0338	34544	2751			14684								
		STD	0300	0316	3456	2754	0005796	0283	14676								
		OBS	0300	0316	34556	2754			14676								
		OBS	0329	0346	34700	2762			14696								
		OBS	0350	0466	34880	2764			14752								
		STD	0400	0478	3491	2765	0004969	0337	14766								
		OBS	0400	0478	34910	2765			14766								
		STD	0500	0449	3492	2769	0004663	0385	14770								
		OBS	0500	0449	34920	2769			14770								
		STD	0600	0422	3494	2774	0004292	0430	14776								
		OBS	0600	0422	34942	2774			14776								
		STD	0700	0409	3494	2775	0004236	0472	14787								
		OBS	0700	0409	34942	2775			14787								
		STD	0800	0396	3493	2776	0004271	0515	14798								
		OBS	0800	0396	34930	2776			14798								
		STD	0900	0396	3494	2777	0004248	0558	14815								
		OBS	0900	0396	34945	2777			14815								
		STD	1000	0396	3495	2778	0004278	0600	14832								
		OBS	1000	0396	34954	2778			14832								
		STD	1100	0390	3496	2779	0004256	0643	14846								
		OBS	1100	0390	34959	2779			14846								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP COOE	LATITUOE ° 1/10	LONGITUOE ° '1/10	DRIFT INDICA	MARSOEN SOUARE 10°	MARSOEN SOUARE 1°	STATION TIME IGMT MO	STATION TIME IGMT OAY	STATION TIME IGMT HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	OEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEA-THER COOE	CLOUO COOES TYPE	CLOUO COOES AMT		NODC STATION NUMBER
318039		EV	44020N	046580W		149	46	05	25	097	1968	002	10231	4206	1	26	2	2		X2	0	3		0192

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. COOE	NO. OBS. OEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S18	135	044	044	3	34	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	OEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUNO VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCO
		STD	0000	0896	3394	2632	0017170	0000	14852								
097		OBS	0000	0896	33940	2632			14852								
		STD	0010	0898	3397	2633	0017017	0017	14855								
		OBS	0010	0898	33967	2633			14855								
		STD	0020	1349	3563	2679	0012684	0031	15036								
003		OBS	0020	1349	35625	2679			15036								
		OBS	0025	1348	35628	2680			15037								
		STD	0030	1326	3563	2685	0012222	0044	15030								
		OBS	0030	1326	35630	2685			15030								
		STD	0050	1336	3565	2684	0012297	0068	15037								
		OBS	0050	1336	35654	2684			15037								
		STD	0075	1387	3580	2685	0012275	0099	15060								
		OBS	0075	1387	35805	2685			15060								
		OBS	0083	1401	35855	2686			15066								
		STD	0100	1336	3568	2686	0012248	0130	15046								
		OBS	0100	1336	35680	2686			15046								
		STD	0125	1266	3551	2687	0012212	0160	15024								
		OBS	0125	1266	35509	2687			15024								
		STD	0150	1234	3547	2691	0011954	0191	15017								
		OBS	0150	1234	35470	2691			15017								
		OBS	0165	1236	35472	2690			15020								
		STD	0200	1123	3534	2702	0011007	0248	14985								
		OBS	0200	1123	35340	2702			14985								
		OBS	0220	1178	35460	2701			15009								
		STD	0250	1170	3535	2694	0011897	0305	15010								
		OBS	0250	1135P	3526P	2693P											
		OBS	0275	1056	35200	2703			14972								
		STD	0300	0844	3499	2722	0009138	0358	14895								
		OBS	0300	0844	34995	2722			14895								
		OBS	0315	0836	35000	2724			14895								
		OBS	0325	0896	35150	2726			14921								
		STD	0400	0693	3493	2739	0007580	0441	14853								
		OBS	0400	0693	34930	2739			14853								
		OBS	0420	0675	34970	2745			14849								
		OBS	0430	0696	35020	2746			14860								
		STD	0500	0606	3495	2753	0006368	0511	14835								
		OBS	0500	0606	34954	2753			14835								
		STD	0600	0516	3496	2765	0005292	0569	14815								
		OBS	0600	0516	34960	2765			14815								
		OBS	0630	0543	35050	2768			14832								
		OBS	0675	0514	35020	2770			14827								
		STD	0700	0524	3504	2770	0004917	0621	14836								
		OBS	0700	0524	35040	2770			14836								
		OBS	0720	0524	35060	2772			14840								
		OBS	0740	0476	35000	2772			14822								
		STD	0800	0461	3498	2772	0004698	0669	14826								
		OBS	0800	0461	34978	2772			14826								
		STD	0900	0439	3498	2775	0004483	0715	14833								
		OBS	0900	0439	34985	2775			14833								
		STD	1000	0423	3498	2777	0004413	0759	14843								
		OBS	1000	0423	34980	2777			14843								
		STD	1100	0406	3496	2777	0004413	0803	14853								
		OBS	1100	0406	34965	2777			14853								
		OBS	1180	0395	34955	2778			14861								

REFERENCE: CTRY CODE	REFERENCE: IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	48330N	046100W		149	86	05	30	027	1968	002	10232	1280	1	23	2	2		X2	0	3		0193

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	24	S11	163	039	033	7	23	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0292	3380	2695	0011108	0000	14606								
027		OBS	0000	0292	33796	2695			14606								
		STD	0010	0290	3382	2698	0010914	0011	14607								
		OBS	0010	0290	33820	2698			14607								
		STD	0020	0239	3383	2703	0010393	0021	14587								
002		OBS	0020	0239	33835	2703			14587								
		OBS	0025	0199	33910	2712			14571								
		STD	0030	0200	3409	2727	0008136	0030	14575								
		OBS	0030	0200	34095	2727			14575								
		OBS	0044	0203	34170	2733			14580								
		STD	0050	0235	3447	2754	0005540	0044	14599								
		OBS	0050	0235	34474	2754			14599								
		STD	0075	0276	3457	2759	0005173	0058	14622								
		OBS	0075	0276	34570	2759			14622								
		STD	0100	0291	3461	2760	0005022	0070	14633								
		OBS	0100	0291	34609	2760			14633								
		STD	0125	0323	3469	2764	0004698	0082	14652								
		OBS	0125	0323	34693	2764			14652								
		STD	0150	0360	3480	2769	0004272	0094	14674								
		OBS	0150	0360	34800	2769			14674								
		STD	0200	0407	3487	2769	0004293	0115	14703								
		OBS	0200	0407	34867	2769			14703								
		STD	0250	0427	3491	2771	0004247	0136	14720								
		STD	0300	0436	3493	2772	0004197	0158	14732								
		OBS	0300	0436	34934	2772			14732								
		STD	0400	0423	3494	2774	0004119	0199	14743								
		OBS	0400	0423	34940	2774			14743								
		STD	0500	0407	3493	2774	0004120	0240	14753								
		OBS	0500	0407	34929	2774			14753								
		STD	0600	0389	3492	2776	0004083	0281	14762								
		OBS	0600	0389	34920	2776			14762								
		STD	0700	0377	3492	2777	0004021	0322	14774								
		OBS	0700	0377	34922	2777			14774								
		STD	0800	0369	3492	2778	0004023	0362	14787								
		OBS	0800	0369	34921	2778			14787								
		STD	0900	0362	3493	2779	0003978	0402	14801								
		OBS	0900	0362	34928	2779			14801								
		STD	1000	0357	3493	2780	0003962	0442	14815								
		OBS	1000	0357	34934	2780			14815								
		STD	1100	0351	3494	2781	0003931	0481	14829								
		OBS	1100	0351	34940	2781			14829								
		OBS	1145	0346	34940	2781			14835								
		OBS	1190	0346	34941	2782			14842								

REFERENCE: SURVEY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
	018039	EV	48190N	046100W		149	86	05	30	046	1965	002	10233	1280	1	02	2	2		X0	0	3		0194

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S09	190	033	033	7	22	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	0237	3353	2679	0012681	0000	14579								
046		OBS	0000	0237	33530	2679			14579								
		STD	0010	0263	3376	2695	0011149	0011	14595								
		OBS	0010	0263	33760	2695			14595								
		STD	0020	0264	3376	2695	0011163	0023	14597								
002		OBS	0020	0264	33760	2695			14597								
		OBS	0025	0246	33763	2697			14590								
		STD	0030	0210	3377	2700	0010657	0034	14575								
		OBS	0030	0210	33772	2700			14575								
		STD	0050	0197	3407	2725	0008306	0052	14577								
		OBS	0050	0197	34070	2725			14577								
		OBS	0055	0182	34140	2732			14572								
		STD	0075	0237	3445	2752	0005752	0070	14604								
		OBS	0075	0237	34450	2752			14604								
		STD	0100	0303	3465	2763	0004790	0083	14639								
		OBS	0100	0303	34655	2763			14639								
		STD	0125	0326	3469	2764	0004726	0095	14654								
		OBS	0125	0326	34694	2764			14654								
		STD	0150	0349	3474	2765	0004610	0107	14668								
		OBS	0150	0349	34740	2765			14668								
		STD	0200	0394	3484	2769	0004323	0129	14697								
		OBS	0200	0394	34845	2769			14697								
		STD	0250	0415	3488	2770	0004302	0151	14714								
		STD	0300	0428	3491	2770	0004308	0172	14728								
		OBS	0300	0428	34908	2770			14728								
		STD	0400	0430	3492	2771	0004332	0215	14746								
		OBS	0400	0430	34922	2771			14746								
		STD	0500	0406	3492	2774	0004163	0258	14753								
		OBS	0500	0406	34921	2774			14753								
		STD	0600	0394	3492	2775	0004135	0299	14764								
		OBS	0600	0394	34920	2775			14764								
		STD	0700	0382	3492	2776	0004101	0341	14776								
		OBS	0700	0382	34919	2776			14776								
		STD	0800	0375	3492	2777	0004106	0382	14789								
		OBS	0800	0375	34920	2777			14789								
		STD	0900	0369	3492	2778	0004082	0423	14803								
		OBS	0900	0369	34925	2778			14803								
		STD	1000	0362	3493	2779	0004045	0463	14817								
		OBS	1000	0362	34930	2779			14817								
		STD	1100	0360	3493	2780	0004079	0504	14833								
		OBS	1100	0360	34934	2780			14833								
		OBS	1135	0358	34936	2780			14838								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47593N	046100W		149	76	05	30	067	1968	002	10234	1042	1	22	2	3		X2	0	3		0195

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	33	S10	166	039	039	7	19	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH
		STD	0000	0210	3356	2683	0012247	0000	14567							
067		OBS	0000	0210	33560	2683			14567							
		STD	0010	0178	3360	2689	0011716	0012	14555							
		OBS	0010	0178	33601	2689			14555							
		STD	0020	0215	3371	2695	0011160	0023	14575							
002		OBS	0020	0215	33709	2695			14575							
		OBS	0025	0217	33728	2696			14577							
		STD	0030	0196	3375	2700	0010719	0034	14569							
		OBS	0030	0196	33750	2700			14569							
		OBS	0038	0055	33820	2715			14508							
		STD	0050	0111	3411	2734	0007409	0052	14539							
		OBS	0050	0111	34110	2734			14539							
		STD	0075	0214	3440	2750	0005955	0069	14593							
		OBS	0075	0214	34400	2750			14593							
		STD	0100	0325	3460	2756	0005409	0083	14648							
		OBS	0100	0325	34599	2756			14648							
		STD	0125	0346	3467	2760	0005092	0096	14662							
		OBS	0125	0346	34670	2760			14662							
		STD	0150	0392	3476	2763	0004851	0109	14687							
		OBS	0150	0392	34765	2763			14687							
		STD	0200	0442	3488	2767	0004553	0132	14717							
		OBS	0200	0442	34881	2767			14717							
		STD	0250	0449	3490	2768	0004530	0155	14729							
		STD	0300	0450	3492	2769	0004494	0177	14738							
		OBS	0300	0450	34916	2769			14738							
		STD	0400	0436	3493	2771	0004346	0221	14749							
		OBS	0400	0436	34928	2771			14749							
		STD	0500	0416	3493	2773	0004238	0264	14757							
		OBS	0500	0416	34927	2773			14757							
		STD	0600	0392	3491	2774	0004212	0307	14763							
		OBS	0600	0392	34907	2774			14763							
		STD	0700	0378	3490	2775	0004192	0349	14774							
		OBS	0700	0378	34901	2775			14774							
		STD	0800	0373	3490	2776	0004191	0391	14788							
		OBS	0800	0373	34905	2776			14788							
		STD	0900	0366	3491	2778	0004120	0432	14802							
		OBS	0900	0366	34915	2778			14802							

REFERENCE CTRY CODE	REFERENCE ID. ND.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE ND.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47400N	046100W		149	76	05	30	085	1968	002	10235	0933	1	22	2	2		X1	0	3		0196

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	27	S03	193	056	050	7	19	

MESSENGR TIME OF HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ ΔD DYN. M. X 10³	SOUND VELOCITY	D2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	ND2-N µg-at/l	ND3-N µg-at/l	SIO4-Si µg-at/l	pH	SCC
		STD	0000	0197	3332	2665	0013948	0000	14558								
085		OBS	0000	0197	33323	2665			14558								
		STD	0010	0197	3332	2665	0013950	0013	14560								
		OBS	0010	0197	33323	2665			14560								
		STD	0020	0184	3333	2667	0013790	0027	14556								
002		OBS	0020	0184	33333	2667			14556								
		OBS	0025	0137	33350	2672			14536								
		STD	0030	0111	3347	2683	0012276	0040	14527								
		OBS	0030	0111	33470	2683			14527								
		OBS	0040	0056	33760	2710			14508								
		STD	0050	0107	3406	2731	0007770	0060	14537								
		OBS	0050	0107	34060	2731			14537								
		STD	0075	0175	3430	2745	0006443	0078	14574								
		OBS	0075	0175	34296	2745			14574								
		STD	0100	0264	3450	2754	0005619	0093	14620								
		OBS	0100	0264	34500	2754			14620								
		STD	0125	0305	3460	2758	0005232	0107	14643								
		OBS	0125	0305	34600	2758			14643								
		STD	0150	0339	3467	2761	0005029	0120	14663								
		OBS	0150	0339	34672	2761			14663								
		STD	0200	0397	3482	2767	0004513	0144	14698								
		OBS	0200	0397	34823	2767			14698								
		STD	0250	0431	3488	2768	0004492	0166	14721								
		STD	0300	0450	3492	2769	0004486	0188	14738								
		OBS	0300	0450	34917	2769			14738								
		STD	0400	0446	3493	2770	0004446	0233	14753								
		OBS	0400	0446	34930	2770			14753								
		STD	0500	0427	3493	2772	0004350	0277	14761								
		OBS	0500	0427	34928	2772			14761								
		STD	0600	0400	3491	2774	0004278	0320	14766								
		OBS	0600	0400	34910	2774			14766								
		STD	0700	0386	3490	2774	0004268	0363	14777								
		OBS	0700	0386	34902	2774			14777								
		STD	0800	0375	3490	2776	0004221	0405	14789								
		OBS	0800	0375	34904	2776			14789								
		OBS	0870	0371	34909	2777			14799								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47180N	046090W		149	76	05	30	107	1968	002	10236	0358	1	22	2	2		X2	0	3		0197

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S13	203	044	044	7	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	NOC
		STD	0000	0748	3407	2664	0014093	0000	14797								
107		OBS	0000	0748	34068	2664			14797								
		STD	0010	0749	3407	2664	0014127	0014	14799								
		OBS	0010	0749	34068	2664			14799								
		STD	0020	0746	3407	2664	0014107	0028	14800								
001		OBS	0020	0746	34067	2664			14800								
		OBS	0025	0746	34068	2664			14800								
		STD	0030	0746	3407	2664	0014114	0042	14801								
		OBS	0030	0746	34068	2664			14801								
		STD	0050	0750	3412	2668	0013785	0070	14807								
		OBS	0050	0750	34124	2668			14807								
		OBS	0054	0756	34144	2669			14810								
		OBS	0056	0777	34210	2671			14819								
		OBS	0058	0755	34168	2671			14811								
		OBS	0074	0905	34622	2683			14876								
		STD	0075	0886	3458	2684	0012374	0102	14869								
		OBS	0075	0886	34585	2684			14869								
		OBS	0083	0864	34602	2688			14862								
		OBS	0085	0817	34540	2691			14844								
		OBS	0090	0862	34710	2697			14864								
		STD	0100	0800	3458	2697	0011150	0132	14840								
		OBS	0100	0800	34585	2697			14840								
		OBS	0107	0754	34520	2699			14823								
		OBS	0120	0759	34610	2705			14828								
		STD	0125	0724	3458	2708	0010163	0159	14815								
		OBS	0125	0724	34580	2708			14815								
		OBS	0130	0578	34530	2723			14757								
		STD	0150	0583	3453	2723	0008713	0182	14762								
		OBS	0150	0583	34535	2723			14762								
		OBS	0157	0584	34540	2723			14764								
		OBS	0164	0635	34749	2733			14788								
		OBS	0165	0621	34757	2735			14783								
		OBS	0170	0705	34820	2729			14818								
		OBS	0181	0726	34880	2731			14829								
		OBS	0193	0637	34810	2738			14795								
		STD	0200	0639	3481	2737	0007436	0222	14797								
		OBS	0200	0639	34810	2737			14797								
		STD	0250	0594	3485	2747	0006593	0258	14787								
		OBS	0270	0584	34867	2749			14787								
		STD	0300	0579	3488	2751	0006293	0290	14790								
		OBS	0300	0579	34880	2751			14790								
		OBS	0325	0578	34910	2753			14794								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DOWN INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	46573N	046100W		149	66	05	30	126	1968	002	10237	0320	1	26	1	2		X1	0	3		0198

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	27	S11	220	067	061	8	26	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ ΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SEC
		STD	0000	0574	3382	2668	0013722	0000	14725								
127		OBS	0000	0574	33825	2668			14725								
		STD	0010	0566	3383	2669	0013598	0013	14723								
		OBS	0010	0566	33830	2669			14723								
		STD	0020	0563	3383	2670	0013583	0027	14724								
001		OBS	0020	0563	33829	2670			14724								
		OBS	0025	0562	33829	2670			14724								
		STD	0030	0563	3384	2670	0013531	0040	14725								
		OBS	0030	0563	33838	2670			14725								
		OBS	0040	0600	34050	2682			14745								
		STD	0050	0688	3422	2684	0012259	0066	14784								
		OBS	0050	0688	34218	2684			14784								
		OBS	0063	0697	34263	2686			14790								
		OBS	0065	0741	34350	2687			14809								
		OBS	0071	0743	34422	2692			14811								
		OBS	0073	0769	34460	2692			14822								
		STD	0075	0721	3440	2694	0011381	0096	14803								
		OBS	0075	0721	34400	2694			14803								
		OBS	0084	0657	34290	2694			14778								
		OBS	0096	0744	34705	2714			14820								
		STD	0100	0739	3469	2714	0009512	0122	14818								
		OBS	0100	0739	34690	2714			14818								
		STD	0125	0636	3460	2721	0008848	0145	14780								
		OBS	0125	0636	34600	2721			14780								
		STD	0150	0588	3461	2728	0008210	0166	14765								
		OBS	0150	0588	34610	2728			14765								
		OBS	0155	0559	34588	2730			14754								
		OBS	0161	0581	34669	2734			14765								
		OBS	0168	0560	34691	2738			14758								
		OBS	0195	0544	34747	2744			14757								
		STD	0200	0498	3471	2747	0006461	0203	14738								
		OBS	0200	0498	34710	2747			14738								
		OBS	0238	0475	34780	2755			14736								
		STD	0250	0461	3480	2758	0005445	0233	14732								
		OBS	0250	0461	34797	2758			14732								
		OBS	0263	0445	34824	2762			14728								
		OBS	0280	0436	34852	2765			14728								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	46577N	046221W		149	66	05	30	142	1968	002	10238	0358	1	26	3	3		X1	0	3		0199

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S13	196	067	061	7	24	

MESSENGR TIME OF T HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0224	3314	2649	0015531	0000	14568								
142		OBS	0000	0224	33140	2649			14568								
		OBS	0003	0142	33170	2657			14532								
		STD	0010	0128	3326	2665	0013985	0014	14528								
001		OBS	0010	0128	33258	2665			14528								
		STD	0020	0122	3333	2671	0013406	0028	14528								
		OBS	0020	0122	33330	2671			14528								
		OBS	0025	0119	33347	2673			14528								
		STD	0030	0119	3337	2674	0013099	0041	14529								
		OBS	0030	0119	33368	2674			14529								
		STD	0050	0118	3338	2675	0013001	0067	14532								
		OBS	0050	0118	33380	2675			14532								
		OBS	0070	0028	33627	2701			14498								
		STD	0075	0036	3373	2709	0009843	0096	14504								
		OBS	0075	0036	33733	2709			14504								
		OBS	0090	0109	34013	2727			14543								
		STD	0100	0120	3403	2727	0008087	0118	14550								
		OBS	0100	0120	34030	2727			14550								
		STD	0125	0176	3423	2740	0006956	0137	14582								
		OBS	0125	0176	34232	2740			14582								
		OBS	0140	0195	34288	2743			14594								
		OBS	0145	0274	34389	2744			14630								
		STD	0150	0271	3439	2744	0006561	0154	14630								
		OBS	0150	0271	34386	2744			14630								
		OBS	0155	0233	34375	2747			14614								
		OBS	0170	0240	34450	2752			14621								
		OBS	0185	0304	34605	2759			14653								
		OBS	0190	0270	34565	2759			14638								
		STD	0200	0286	3461	2761	0005042	0183	14648								
		OBS	0200	0286	34610	2761			14648								
		OBS	0220	0476	34883	2763			14735								
		STD	0250	0464	3488	2764	0004880	0208	14735								
		OBS	0250	0464	34878	2764			14735								
		STD	0300	0429	3489	2769	0004461	0231	14729								
		OBS	0300	0429	34889	2769			14729								
		OBS	0320	0420	34899	2771			14728								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
3	18039	EV	46571N	046354W		149	66	05	30	153	1968	002	10239	0768	1	26	3	3		X1	0	3		0200

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S13	196	039	039	7	19	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOU
		STD	0000	0126	3314	2656	0014871	0000	14524								
153		OBS	0000	0126	33140	2656			14524								
		STD	0010	0116	3316	2658	0014672	0014	14522								
		OBS	0010	0116	33158	2658			14522								
		STD	0020	0086	3324	2666	0013893	0029	14511								
002		OBS	0020	0086	33238	2666			14511								
		OBS	0025	0071	33280	2670			14506								
		STD	0030	0086	3342	2681	0012464	0042	14515								
		OBS	0030	0086	33425	2681			14515								
		OBS	0039	0061	33630	2699			14508								
		STD	0050	0106	3390	2718	0008980	0063	14534								
		OBS	0050	0106	33900	2718			14534								
		STD	0075	0209	3439	2750	0005990	0082	14591								
		OBS	0075	0209	34390	2750			14591								
		STD	0100	0258	3451	2756	0005455	0096	14618								
		OBS	0100	0258	34515	2756			14618								
		STD	0125	0306	3463	2760	0005062	0109	14644								
		OBS	0125	0306	34625	2760			14644								
		STD	0150	0342	3469	2762	0004940	0122	14665								
		OBS	0150	0342	34688	2762			14665								
		STD	0200	0394	3481	2766	0004593	0146	14696								
		OBS	0200	0394	34809	2766			14696								
		STD	0250	0443	3489	2767	0004580	0169	14726								
		OBS	0250	0443	34887	2767			14726								
		OBS	0280	0432	34875	2767			14726								
		STD	0300	0449	3492	2769	0004458	0191	14737								
		OBS	0300	0449	34919	2769			14737								
		STD	0400	0448	3494	2771	0004403	0236	14754								
		OBS	0400	0448	34939	2771			14754								
		STD	0500	0421	3492	2772	0004360	0279	14759								
		OBS	0500	0421	34918	2772			14759								
		STD	0600	0399	3491	2774	0004249	0322	14766								
		OBS	0600	0399	34912	2774			14766								
		STD	0700	0393	3492	2775	0004209	0365	14780								
		OBS	0700	0393	34921	2775			14780								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	46568N	046483W		149	66	05	30	164	1968	002	10240	1225	1	26	3	3		X1	0	3		0201

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S21	193	039	039	7	23	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SOO
		STD	0000	0185	3347	2678	0012717	0000	14555								
164		OBS	0000	0185	33475	2678			14555								
		STD	0010	0181	3348	2679	0012638	0012	14555								
		OBS	0010	0181	33482	2679			14555								
		STD	0020	0179	3350	2681	0012487	0025	14556								
	002	OBS	0020	0179	33500	2681			14556								
		OBS	0025	0179	33535	2684			14557								
		STD	0030	0177	3355	2685	0012056	0037	14558								
		OBS	0030	0177	33555	2685			14558								
		OBS	0048	0146	33610	2692			14548								
		STD	0050	0108	3363	2696	0011039	0060	14531								
		OBS	0050	0108	33630	2696			14531								
		OBS	0055	0106	33780	2708			14533								
		STD	0075	0176	3431	2746	0006344	0082	14575								
		OBS	0075	0176	34310	2746			14575								
		STD	0100	0209	3440	2751	0005920	0097	14595								
		OBS	0100	0209	34400	2751			14595								
		STD	0125	0254	3457	2760	0005018	0111	14621								
		OBS	0125	0254	34570	2760			14621								
		STD	0150	0310	3467	2763	0004766	0123	14651								
		OBS	0150	0228P	3473P	2775P											
		STD	0200	0386	3481	2767	0004508	0146	14693								
		OBS	0200	0386	34809	2767			14693								
		STD	0250	0412	3486	2769	0004426	0169	14713								
		OBS	0250	0412	34862	2769			14713								
		STD	0300	0429	3490	2770	0004380	0191	14729								
		OBS	0300	0429	34900	2770			14729								
		STD	0400	0444	3494	2771	0004363	0234	14752								
		OBS	0400	0444	34939	2771			14752								
		STD	0500	0426	3494	2773	0004259	0277	14761								
		OBS	0500	0426	34939	2773			14761								
		STD	0600	0406	3491	2773	0004304	0320	14769								
		OBS	0600	0406	34915	2773			14769								
		STD	0700	0388	3490	2774	0004316	0363	14778								
		OBS	0700	0388	34899	2774			14778								
		STD	0800	0382	3491	2775	0004262	0406	14792								
		OBS	0800	0382	34909	2775			14792								
		STD	0900	0377	3491	2776	0004286	0449	14807								
		OBS	0900	0377	34910	2776			14807								
		STD	1000	0368	3492	2778	0004201	0491	14820								
		OBS	1000	0368	34919	2778			14820								
		STD	1100	0365	3493	2779	0004137	0533	14835								
		OBS	1100	0365	34934	2779			14835								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318	039	EV	46563N	047028W		149	67	05	30	177	1968	000	10241	1147	1	26	4	3		X1	0	3		0202

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S27	186	044	044	7	27	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0176	3330	2665	0013957	0000	14549								
177		OBS	0000	0176	33303	2665			14549								
		STD	0010	0166	3332	2667	0013760	0013	14546								
		OBS	0010	0166	33320	2667			14546								
		STD	0020	0154	3338	2673	0013263	0027	14543								
001		OBS	0020	0154	33376	2673			14543								
		OBS	0025	0143	33375	2673			14539								
		STD	0030	0126	3340	2676	0012910	0040	14533								
		OBS	0030	0126	33398	2676			14533								
		OBS	0045	0121	33600	2693			14536								
		STD	0050	0083	3370	2703	0010358	0063	14521								
		OBS	0050	0083	33700	2703			14521								
		OBS	0058	0083	33850	2715			14524								
		STD	0075	0131	3405	2728	0008004	0086	14551								
		OBS	0075	0131	34050	2728			14551								
		STD	0100	0190	3433	2747	0006266	0104	14586								
		OBS	0100	0190	34335	2747			14586								
		STD	0125	0239	3444	2751	0005896	0119	14613								
		OBS	0125	0239	34437	2751			14613								
		STD	0150	0278	3453	2755	0005537	0134	14635								
		OBS	0150	0278	34530	2755			14635								
		OBS	0175	0304	34600	2758			14651								
		STD	0200	0346	3467	2760	0005163	0160	14674								
		OBS	0200	0346	34668	2760			14674								
		STD	0250	0391	3476	2763	0004962	0186	14703								
		OBS	0250	0391	34761	2763			14703								
		OBS	0270	0396	34795	2765			14709								
		OBS	0286	0389	34780	2764			14708								
		STD	0300	0419	3484	2766	0004696	0210	14724								
		OBS	0300	0419	34843	2766			14724								
		OBS	0320	0444	34880	2767			14738								
		OBS	0330	0405	34840	2768			14723								
		STD	0400	0429	3490	2770	0004483	0256	14745								
		OBS	0400	0429	34900	2770			14745								
		STD	0500	0446	3494	2771	0004489	0301	14769								
		OBS	0500	0446	34939	2771			14769								
		STD	0600	0424	3492	2772	0004438	0345	14777								
		OBS	0600	0424	34925	2772			14777								
		STD	0700	0403	3491	2773	0004404	0389	14784								
		OBS	0700	0403	34910	2773			14784								
		STD	0800	0380	3490	2775	0004311	0433	14791								
		OBS	0800	0380	34900	2775			14791								
		STD	0900	0377	3490	2775	0004349	0476	14806								
		OBS	0900	0377	34902	2775			14806								
		STD	1000	0376	3492	2777	0004292	0519	14823								
		OBS	1000	0376	34920	2777			14823								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	46563N	047180W		149	67	05	30	191	1968	002	10242	0375	1	25	5	3		X1	0	3		0203

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	50	23	S28	200	056	050	7	17	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ O DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOO
		STD	0000	0255	3322	2653	0015142	0000	14582								
191		OBS	0000	0255	33223	2653			14582								
		STD	0010	0252	3323	2654	0015065	0015	14583								
		OBS	0010	0252	33231	2654			14583								
		STD	0020	0246	3324	2655	0014915	0030	14582								
001		OBS	0020	0246	33245	2655			14582								
		OBS	0025	0244	33258	2657			14582								
		STD	0030	0209	3329	2662	0014309	0044	14568								
		OBS	0030	0209	33288	2662			14568								
		STD	0050	0174	3342	2675	0013063	0072	14558								
		OBS	0050	0174	33420	2675			14558								
		OBS	0069	0083	33490	2686			14521								
		STD	0075	0122	3375	2705	0010222	0101	14543								
		OBS	0075	0122	33750	2705			14543								
		STD	0100	0223	3407	2723	0008503	0124	14596								
		OBS	0100	0223	34073	2723			14596								
		STD	0125	0253	3423	2733	0007577	0144	14616								
		OBS	0125	0253	34230	2733			14616								
		STD	0150	0284	3433	2739	0007116	0163	14635								
		OBS	0150	0284	34328	2739			14635								
		STD	0200	0364	3454	2748	0006296	0196	14680								
		OBS	0200	0364	34541	2748			14680								
		OBS	0244	0447	34675	2750			14724								
		STD	0250	0447	3468	2750	0006174	0227	14725								
		OBS	0250	0447	34679	2750			14725								
		OBS	0286	0475	34767	2754			14744								
		STD	0300	0477	3477	2754	0005879	0257	14747								
		OBS	0300	0477	34771	2754			14747								
		OBS	0340	0487	34809	2756			14758								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	46559N	047295W		149	67	05	30	205	1968	002	10243	0218	1	24	5	3		X1	0	3		0204

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S24	200	044	039	6	18	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ O DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOO
		STD	0000	0196	3284	2627	0017586	0000	14551								
205		OBS	0000	0196	32843	2627			14551								
		STD	0010	0195	3284	2627	0017570	0017	14553								
		OBS	0010	0195	32844	2627			14553								
		STD	0020	0187	3285	2629	0017454	0035	14551								
001		OBS	0020	0187	32853	2629			14551								
		OBS	0025	0174	32862	2630			14546								
		OBS	0028	0166	32880	2632			14543								
		STD	0030	0026	3290	2642	0016121	0051	14481								
		OBS	0030	0026	32903	2642			14481								
		OBS	0032	-0063	32930	2649			14440								
		OBS	0047	-0067	33085	2661			14443								
		STD	0050	-0054	3323	2672	0013302	0081	14452								
		OBS	0050	-0054	33226	2672			14452								
		OBS	0064	0037	33337	2677			14497								
		STD	0075	0037	3339	2681	0012462	0113	14500								
		OBS	0075	0037	33390	2681			14500								
		STD	0100	0107	3365	2698	0010871	0142	14539								
		OBS	0100	0107	33652	2698			14539								
		OBS	0113	0164	33760	2703			14568								
		STD	0125	0169	3386	2710	0009749	0168	14574								
		OBS	0125	0169	33856	2710			14574								
		OBS	0146	0195	33999	2720			14591								
		STD	0150	0229	3413	2727	0008184	0190	14608								
		OBS	0150	0229	34125	2727			14608								
		OBS	0165	0245	34140	2727			14618								
		STD	0200	0246	3414	2727	0008243	0231	14624								
		OBS	0200	0246	34139	2727			14624								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	46555N	047432W		149	67	05	30	217	1968	002	10244	0174	1	25	5	3		X2	0	3		0205

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S18	203	050	050	6	12	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg - at/l	TOTAL-P µg - at/l	NO_2-N µg - at/l	NO_3-N µg - at/l	SiO_4-Si µg - at/l	pH	SCD
		STD	0000	0101	3284	2633	0017016	0000	14509								
217		OBS	0000	0101	32839	2633			14509								
		STD	0010	0098	3284	2633	0016997	0017	14509								
		OBS	0010	0098	32839	2633			14509								
		STD	0020	0097	3284	2633	0016978	0034	14510								
001		OBS	0020	0097	32840	2633			14510								
		OBS	0025	0096	32843	2634			14511								
		STD	0030	0088	3284	2634	0016950	0051	14508								
		OBS	0030	0088	32837	2634			14508								
		STD	0050	-0045	3303	2656	0014795	0082	14453								
		OBS	0050	-0045	33035	2656			14453								
		OBS	0053	-0027	33050	2657			14462								
		OBS	0070	-0038	33243	2673			14463								
		STD	0075	-0025	3336	2682	0012404	0116	14471								
		OBS	0075	-0025	33358	2682			14471								
		STD	0100	0026	3368	2705	0010154	0144	14503								
		OBS	0100	0026	33685	2705			14503								
		STD	0125	0058	3383	2716	0009197	0169	14524								
		OBS	0125	0058	33833	2716			14524								
		STD	0150	0111	3396	2723	0008524	0191	14554								
		OBS	0150	0111	33965	2723			14554								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	46552N	047578W		149	67	05	30	229	1968	002	10245	0125	1	25	3	3		X2	0	3		0206

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S18	217	050	050	6	10	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg - at/l	TOTAL-P µg - at/l	NO_2-N µg - at/l	NO_3-N µg - at/l	SiO_4-Si µg - at/l	pH	SCD
		STD	0000	0168	3272	2620	0018302	0000	14537								
229		OBS	0000	0168	32724	2620			14537								
		STD	0010	0168	3273	2620	0018276	0018	14539								
		OBS	0010	0168	32727	2620			14539								
		STD	0020	0170	3273	2620	0018295	0036	14542								
001		OBS	0020	0170	32727	2620			14542								
		STD	0030	0143	3273	2622	0018077	0054	14531								
		OBS	0030	0143	32733	2622			14531								
		OBS	0045	-0054	32960	2651			14447								
		STD	0050	-0008	3314	2663	0014149	0087	14472								
		OBS	0050	-0008	33140	2663			14472								
		STD	0075	0009	3320	2667	0013784	0121	14484								
		OBS	0075	0009	33198	2667			14484								
		OBS	0080	-0004	33195	2667			14479								
		STD	0100	0035	3351	2691	0011546	0153	14505								
		OBS	0100	0035	33508	2691			14505								
		STD	0125	0040	3351	2690	0011572	0182	14511								
		OBS	0125	0040	33508	2690			14511								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	44400N	049200W		149	49	05	31	177	1968	002	10246	0060	1	20	2	3		X2	0	3		0207

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	19	S17	207	061	061	7	07	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	0275	3272	2611	0019081	0000	14584								
177		OBS	0000	0275	32723	2611			14584								
		STD	0010	0258	3272	2613	0018957	0019	14579								
		OBS	0010	0258	32723	2613			14579								
		STD	0020	0191	3271	2617	0018540	0037	14551								
001		OBS	0020	0191	32713	2617			14551								
		OBS	0025	0178	32711	2618			14546								
		STD	0030	0130	3277	2626	0017713	0055	14526								
		OBS	0030	0130	32770	2626			14526								
		OBS	0034	0112	32891	2637			14520								
		STD	0050	0110	3291	2638	0016508	0090	14522								
		OBS	0050	0110	32912	2638			14522								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	44370N	049050W		149	49	05	31	187	1968	002	10247	0896	1	20	2	3		X6	0	3		0208

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	19	S22	200	072	072	7	25	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	0192	3272	2617	0018510	0000	14548								
187		OBS	0000	0192	32718	2617			14548								
		STD	0010	0178	3272	2618	0018412	0018	14543								
		OBS	0010	0178	32718	2618			14543								
002		OBS	0013	0176	32717	2618			14543								
		STD	0020	-0034	3282	2639	0016500	0035	14450								
		OBS	0020	-0034	32820	2639			14450								
		OBS	0025	-0056	32905	2646			14442								
		STD	0030	-0035	3300	2653	0015130	0051	14454								
		OBS	0030	-0035	32998	2653			14454								
		OBS	0038	-0043	33117	2663			14453								
		OBS	0040	-0015	33170	2666			14467								
		STD	0050	-0017	3328	2675	0013046	0079	14469								
		OBS	0050	-0017	33280	2675			14469								
		STD	0075	-0020	3336	2681	0012414	0111	14473								
		OBS	0075	-0020	33360	2681			14473								
		STD	0100	-0008	3341	2685	0012058	0142	14484								
		OBS	0100	-0008	33413	2685			14484								
		STD	0125	0026	3356	2695	0011080	0171	14505								
		OBS	0125	0026	33562	2695			14505								
		STD	0150	0059	3374	2708	0009927	0197	14527								
		OBS	0150	0059	33738	2708			14527								
		STD	0200	0088	3385	2715	0009257	0245	14550								
		OBS	0200	0088	33850	2715			14550								
		OBS	0215	0104	33990	2725			14562								
		OBS	0219	0141	34038	2727			14579								
		STD	0250	0219	3433	2744	0006596	0285	14623								
		OBS	0250	0219	34330	2744			14623								
		STD	0300	0308	3455	2754	0005763	0316	14673								
		OBS	0300	0308	34550	2754			14673								
		OBS	0369	0383	34728	2761			14719								
		OBS	0380	0431	34808	2762			14742								
		STD	0400	0428	3481	2763	0005100	0370	14744								
		OBS	0400	0428	34815	2763			14744								
		STD	0500	0436	3486	2766	0004969	0420	14764								
		OBS	0500	0436	34859	2766			14764								
		STD	0600	0435	3489	2768	0004829	0469	14781								
		OBS	0600	0435	34890	2768			14781								
		STD	0700	0427	3491	2771	0004676	0517	14794								
		OBS	0700	0427	34912	2771			14794								
		STD	0800	0413	3492	2773	0004553	0563	14805								
		OBS	0800	0413	34919	2773			14805								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	44342N	048500W		149	48	05	31	200	1968	002	10248	2359	1	18	3	2		X2	0	3		0209

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	18	S24	186	072	072	7	39	

MESSENGR TIME OR HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$X10^7$	Σ Δ D DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	S COD
		STD	0000	0186	3284	2628	0017505	0000	14547								
200		OBS	0000	0186	32845	2628			14547								
		STD	0010	0164	3288	2632	0017090	0017	14539								
		OBS	0010	0164	32880	2632			14539								
		STD	0020	0071	3296	2645	0015918	0033	14500								
003		OBS	0020	0071	32960	2645			14500								
		OBS	0025	0060	33028	2651			14497								
		STD	0030	0049	3306	2654	0015029	0049	14493								
		OBS	0030	0049	33062	2654			14493								
		OBS	0040	0039	33158	2662			14492								
		STD	0050	0071	3338	2678	0012724	0077	14511								
		OBS	0050	0071	33380	2678			14511								
		OBS	0052	0155	33590	2690			14552								
		OBS	0070	0118	33793	2709			14541								
		STD	0075	0128	3385	2712	0009520	0104	14547								
		OBS	0075	0128	33847	2712			14547								
		OBS	0079	0141	33888	2715			14554								
		OBS	0095	0146	34100	2731			14562								
		STD	0100	0226	3418	2731	0007737	0126	14599								
		OBS	0100	0226	34178	2731			14599								
		OBS	0101	0275	34240	2732			14622								
		OBS	0110	0275	34308	2738			14624								
		STD	0125	0348	3454	2749	0006084	0143	14661								
		OBS	0125	0348	34540	2749			14661								
		OBS	0133	0407	34620	2750			14688								
		OBS	0145	0314	34580	2756			14650								
		STD	0150	0326	3460	2756	0005447	0158	14656								
		OBS	0150	0326	34600	2756			14656								
		OBS	0170	0397	34690	2756			14691								
		OBS	0180	0382	34679	2757			14686								
		OBS	0185	0400	34720	2759			14695								
		STD	0200	0402	3472	2759	0005316	0185	14699								
		OBS	0200	0402	34723	2759			14699								
		OBS	0231	0419	34799	2763			14712								
		OBS	0248	0446	34847	2764			14727								
		STD	0250	0444	3485	2764	0004868	0210	14726								
		OBS	0250	0444	34849	2764			14726								
		STD	0300	0446	3488	2767	0004689	0234	14736								
		OBS	0300	0446	34883	2767			14736								
		STD	0400	0452	3491	2768	0004667	0281	14755								
		OBS	0400	0452	34910	2768			14755								
		STD	0500	0447	3493	2770	0004571	0327	14770								
		OBS	0500	0447	34929	2770			14770								
		STD	0600	0425	3492	2772	0004466	0372	14777								
		OBS	0600	0425	34923	2772			14777								
		STD	0700	0415	3492	2773	0004433	0417	14789								
		OBS	0700	0415	34925	2773			14789								
		STD	0800	0398	3492	2775	0004373	0461	14799								
		OBS	0800	0398	34920	2775			14799								
		STD	0900	0389	3492	2775	0004366	0504	14812								
		OBS	0900	0389	34919	2775			14812								
		STD	1000	0380	3491	2776	0004372	0548	14825								
		OBS	1000	0380	34915	2776			14825								
		STD	1100	0376	3492	2777	0004387	0592	14840								
		OBS	1100	0376	34918	2777			14840								
		STD	1200	0376	3492	2777	0004473	0636	14856								
		OBS	1200	0376	34918	2777			14856								
		STD	1300	0375	3492	2777	0004538	0681	14873								
		OBS	1300	0375	34920	2777			14873								
		STD	1400	0374	3492	2777	0004602	0727	14889								
		OBS	1400	0374	34921	2777			14889								
		STD	1500	0374	3493	2778	0004615	0773	14906								
		OBS	1500	0374	34930	2778			14906								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BDTTDM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	44312N	048345W		149	48	05	31	220	1968	002	10249	3146	1	18	2	2		X2	0	3		0210

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	18	S16	183	094	094	7	29	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0618	3370	2653	0015178	0000	14741								
219		OBS	0000	0618	33700	2653			14741								
		STD	0010	0624	3371	2652	0015219	0015	14745								
		OBS	0010	0624	33706	2652			14745								
		STD	0020	0691	3400	2667	0013878	0029	14777								
003		OBS	0020	0691	34000	2667			14777								
		OBS	0025	0764	34300	2680			14810								
		STD	0030	0851	3462	2692	0011508	0042	14849								
		OBS	0030	0851	34620	2692			14849								
		OBS	0040	0883	34685	2692			14863								
		STD	0050	0775	3461	2703	0010525	0064	14823								
		OBS	0050	0775	34610	2703			14823								
		STD	0075	0667	3453	2711	0009702	0089	14784								
		OBS	0075	0667	34530	2711			14784								
		OBS	0092	0831	34920	2718			14855								
		STD	0100	0823	3491	2719	0009070	0113	14853								
		OBS	0100	0823	34910	2719			14853								
		OBS	0110	0783	34880	2723			14839								
		OBS	0120	0820	34940	2722			14856								
		STD	0125	0795	3492	2724	0008640	0135	14847								
		OBS	0125	0795	34920	2724			14847								
		STD	0150	0696	3486	2734	0007724	0155	14812								
		OBS	0150	0696	34862	2734			14812								
		STD	0200	0603	3482	2742	0006933	0192	14782								
		OBS	0200	0603	34816	2742			14782								
		STD	0250	0556	3483	2750	0006302	0225	14772								
		OBS	0250	0556	34832	2750			14772								
		STD	0300	0504	3485	2758	0005566	0255	14759								
		OBS	0300	0504	34855	2758			14759								
		STD	0400	0464	3491	2767	0004804	0307	14760								
		OBS	0400	0464	34910	2767			14760								
		STD	0500	0468	3497	2771	0004498	0353	14779								
		OBS	0500	0468	34972	2771			14779								
		STD	0600	0456	3498	2773	0004439	0398	14791								
		OBS	0600	0456	34976	2773			14791								
		STD	0700	0436	3497	2775	0004335	0442	14799								
		OBS	0700	0436	34972	2775			14799								
		STD	0800	0424	3497	2776	0004307	0485	14810								
		OBS	0800	0424	34970	2776			14810								
		STD	0900	0416	3497	2777	0004282	0528	14824								
		OBS	0900	0416	34973	2777			14824								
		STD	1000	0402	3496	2777	0004310	0571	14834								
		OBS	1000	0402	34959	2777			14834								
		STD	1100	0394	3495	2777	0004364	0614	14848								
		OBS	1100	0394	34951	2777			14848								
		STD	1200	0383	3495	2779	0004308	0658	14860								
		OBS	1200	0383	34953	2779			14860								
		STD	1300	0382	3496	2779	0004339	0701	14876								
		OBS	1300	0382	34959	2779			14876								
		STD	1400	0378	3496	2780	0004360	0744	14891								
		OBS	1400	0378	34960	2780			14891								
		STD	1500	0372	3496	2780	0004371	0788	14906								
		OBS	1500	0372	34960	2780			14906								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSOEN SQUARE 10°	MARSOEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR,1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	44290N	048200W		149	48	05	31	235	1968	002	10250	3512	1	18	2	2		X5	0	3		0211

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	18	S20	183	094	094	7	29	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0515	3330	2634	0016971	0000	14694								
235		OBS	0000	0515	33302	2634			14694								
		OBS	0005	0563	33380	2634			14715								
		STD	0010	0477	3333	2640	0016328	0016	14680								
002		OBS	0010	0477	33335	2640			14680								
		STD	0020	0476	3346	2650	0015388	0032	14683								
		OBS	0020	0476	33460	2650			14683								
		OBS	0025	0496	33700	2667			14695								
		STD	0030	0720	3420	2678	0012783	0046	14793								
		OBS	0030	0720	34200	2678			14793								
		STD	0050	0898	3477	2696	0011144	0070	14872								
		OBS	0050	0898	34770	2696			14872								
		OBS	0069	0923	34840	2698			14885								
		STD	0075	0716	3460	2710	0009827	0096	14804								
		OBS	0075	0716	34600	2710			14804								
		STD	0100	0538	3435	2714	0009493	0120	14733								
		OBS	0100	0538	34350	2714			14733								
		STD	0125	0664	3467	2723	0008685	0143	14793								
		OBS	0125	0664	34671	2723			14793								
		OBS	0140	0716	34794	2725			14817								
		STD	0150	0646	3470	2728	0008275	0164	14790								
		OBS	0150	0646	34700	2728			14790								
		OBS	0160	0514	34546	2732			14736								
		OBS	0182	0546	34610	2733			14754								
		OBS	0188	0511	34586	2736			14740								
		STD	0200	0511	3465	2741	0007061	0203	14743								
		OBS	0200	0511	34650	2741			14743								
		OBS	0234	0505	34710	2746			14747								
		STD	0250	0502	3470	2745	0006665	0237	14748								
		OBS	0250	0502	34697	2745			14748								
		STD	0300	0539	3489	2756	0005726	0268	14774								
		OBS	0300	0539	34890	2756			14774								
		OBS	0350	0525	34901	2759			14777								
		STD	0400	0477	3488	2763	0005175	0322	14765								
		OBS	0400	0477	34880	2763			14765								
		STD	0500	0456	3492	2769	0004734	0372	14773								
		OBS	0500	0456	34922	2769			14773								
		STD	0600	0441	3493	2771	0004560	0419	14784								
		OBS	0600	0441	34935	2771			14784								
		STD	0700	0424	3493	2773	0004502	0464	14793								
		OBS	0700	0424	34930	2773			14793								
		STD	0800	0423	3493	2773	0004572	0509	14810								
		OBS	0800	0423	34933	2773			14810								
		STD	0900	0415	3495	2775	0004476	0554	14823								
		OBS	0900	0415	34946	2775			14823								
		STD	1000	0404	3494	2776	0004474	0599	14835								
		OBS	1000	0404	34940	2776			14835								
		STD	1100	0399	3495	2777	0004457	0644	14850								
		OBS	1100	0399	34947	2777			14850								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR,1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44240N	048050W		149	48	06	01	008	1968	002	10251	1980	1	18	3	5		X5	0	3		0212

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	18	S20	160	833	B33	8	25	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	$\Sigma\Delta D$ DYN. M. $x 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCO
		STD	0000	0455	3321	2633	0016998	0000	14668								
008		OBS	0000	0455	33215	2633			14668								
		STD	0010	0450	3322	2635	0016898	0016	14667								
		OBS	0010	0450	33223	2635			14667								
		STD	0020	0443	3330	2642	0016227	0033	14667								
003		OBS	0020	0443	33304	2642			14667								
		OBS	0025	0441	33315	2643			14667								
		STD	0030	0441	3332	2643	0016091	0049	14668								
		OBS	0030	0441	33320	2643			14668								
		STD	0050	0286	3362	2682	0012409	0078	14609								
		OBS	0050	0286	33620	2682			14609								
		OBS	0061	0056	33702	2705			14511								
		STD	0075	0060	3379	2712	0009542	0105	14516								
		OBS	0075	0060	33790	2712			14516								
		STD	0100	0123	3403	2727	0008106	0127	14552								
		OBS	0100	0123	34030	2727			14552								
		STD	0125	0285	3434	2739	0007019	0146	14631								
		OBS	0125	0285	34340	2739			14631								
		OBS	0143	0399	34480	2740			14685								
		STD	0150	0339	3440	2739	0007074	0164	14659								
		OBS	0150	0339	34400	2739			14659								
		OBS	0160	0356	34497	2745			14670								
		OBS	0174	0323	34522	2750			14658								
		STD	0200	0487	3478	2754	0005808	0196	14735								
		OBS	0200	0487	34780	2754			14735								
		STD	0250	0496	3488	2761	0005223	0224	14748								
		OBS	0250	0496	34880	2761			14748								
		STD	0300	0469	3488	2763	0004993	0249	14745								
		OBS	0300	0469	34877	2763			14745								
		STD	0400	0457	3492	2768	0004680	0297	14757								
		OBS	0400	0457	34916	2768			14757								
		STD	0500	0436	3493	2771	0004468	0343	14765								
		OBS	0500	0436	34926	2771			14765								
		STD	0600	0425	3493	2773	0004377	0387	14777								
		OBS	0600	0425	34935	2773			14777								
		STD	0700	0414	3494	2774	0004342	0431	14789								
		OBS	0700	0414	34936	2774			14789								
		STD	0800	0410	3494	2775	0004360	0475	14804								
		OBS	0800	0410	34940	2775			14804								
		STD	0900	0406	3496	2777	0004261	0518	14819								
		OBS	0900	0406	34960	2777			14819								
		STD	1000	0401	3496	2777	0004290	0560	14834								
		OBS	1000	0401	34960	2777			14834								
		STD	1100	0390	3495	2778	0004353	0604	14846								
		OBS	1100	0390	34946	2778			14846								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	44240N	047530W		149	47	06	01	021	1968	002	10252	2090	1	18	4	6		X5	0	3		0213

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	18	S18	170	083	083	7	28	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	
		STD	0000	0461	3326	2636	0016708	0000	14671								
021		OBS	0000	0461	33262	2636			14671								
		STD	0010	0462	3328	2638	0016590	0016	14673								
		OBS	0010	0462	33280	2638			14673								
		STD	0020	0447	3328	2640	0016427	0033	14669								
003		OBS	0020	0447	33283	2640			14669								
		OBS	0025	0386	33285	2646			14644								
		STD	0030	0136	3331	2668	0013670	0048	14536								
		OBS	0030	0136	33307	2668			14536								
		OBS	0040	0017	33480	2689			14486								
		STD	0050	0020	3369	2706	0010087	0072	14492								
		OBS	0050	0020	33690	2706			14492								
		STD	0075	0340	3438	2738	0007179	0093	14647								
		OBS	0075	0340	34380	2738			14647								
		OBS	0085	0448	34540	2739			14696								
		OBS	0091	0377	34455	2740			14667								
		STD	0100	0456	3456	2740	0007011	0111	14703								
		OBS	0100	0456	34559	2740			14703								
		STD	0125	0355	3447	2744	0006645	0128	14663								
		OBS	0125	0355	34475	2744			14663								
		OBS	0135	0340	34483	2746			14658								
		STD	0150	0395	3463	2752	0005906	0144	14686								
		OBS	0150	0395	34628	2752			14686								
		OBS	0185	0446	34740	2755			14715								
		STD	0200	0376	3468	2758	0005385	0172	14687								
		OBS	0200	0376	34678	2758			14687								
		OBS	0219	0383	34725	2761			14694								
		OBS	0222	0453	34825	2761			14725								
		STD	0250	0454	3485	2763	0004937	0198	14730								
		OBS	0250	0454	34855	2763			14730								
		STD	0300	0476	3492	2766	0004747	0222	14749								
		OBS	0300	0476	34921	2766			14749								
		STD	0400	0462	3493	2769	0004613	0269	14759								
		OBS	0400	0462	34933	2769			14759								
		STD	0500	0449	3494	2771	0004475	0314	14771								
		OBS	0500	0449	34945	2771			14771								
		STD	0600	0430	3494	2773	0004402	0358	14779								
		OBS	0600	0430	34940	2773			14779								
		STD	0700	0424	3494	2773	0004430	0403	14793								
		OBS	0700	0424	34940	2773			14793								
		STD	0800	0403	3494	2776	0004276	0446	14801								
		OBS	0800	0403	34941	2776			14801								
		STD	0900	0398	3493	2776	0004350	0489	14816								
		OBS	0900	0398	34935	2776			14816								
		STD	1000	0395	3494	2776	0004382	0533	14831								
		OBS	1000	0395	34938	2776			14831								
		STD	1100	0391	3494	2777	0004392	0577	14846								
		OBS	1100	0391	34943	2777			14846								

REFERENCE CTRY CODE	REFERENCE IQ. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44200N	047320W		149	47	06	01	040	1968	002	10253	4023	1	18	3	3		X6	0	3		0214

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	18	S28	149	078	078	7	32	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	t °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOO
		STD	0000	0350	3294	2622	0018075	0000	14620								
040		OBS	0000	0350	32940	2622			14620								
		OBS	0008	0477	33260	2635			14679								
		STD	0010	0416	3320	2636	0016734	0017	14653								
002		OBS	0010	0416	33200	2636			14653								
		OBS	0013	0242	33040	2639			14576								
		STD	0020	0821	3439	2678	0012753	0032	14833								
		OBS	0020	0821	34390	2678			14833								
		OBS	0025	0906	34560	2678			14868								
		STD	0030	0977	3476	2682	0012410	0044	14897								
		STD	0050	1149	3526	2691	0011684	0068	14968								
		OBS	0050	1149	35260	2691			14968								
		STD	0075	1112	3520	2693	0011532	0097	14959								
		OBS	0075	1112	35200	2693			14959								
		STD	0100	1005	3506	2701	0010804	0125	14923								
		OBS	0100	1005	35060	2701			14923								
		STD	0125	0936	3500	2708	0010183	0152	14901								
		OBS	0125	0936	35000	2708			14901								
		STD	0150	0910	3501	2713	0009749	0176	14895								
		OBS	0150	0910	35010	2713			14895								
		OBS	0175	0795	34927	2724			14855								
		STD	0200	0813	3498	2726	0008593	0222	14867								
		OBS	0200	0813	34980	2726			14867								
		OBS	0230	0623	34820	2740			14795								
		OBS	0240	0662	34910	2742			14814								
		STD	0250	0624	3478	2737	0007510	0263	14799								
		OBS	0250	0624	3457P	2720P											
		OBS	0255	0570	34770	2743			14778								
		OBS	0265	0602	34840	2744			14793								
		OBS	0285	0387	34549	2746			14704								
		STD	0300	0453	3470	2751	0006140	0297	14736								
		OBS	0300	0453	34700	2751			14736								
		OBS	0320	0516	34870	2757			14768								
		OBS	0335	0476	34640	2760			14753								
		OBS	0360	0515	34920	2762			14774								
		STD	0400	0461	3487	2764	0005079	0353	14758								
		OBS	0400	0461	34868	2764			14758								
		STD	0500	0456	3492	2768	0004752	0402	14773								
		OBS	0500	0456	34919	2768			14773								
		STD	0600	0443	3492	2770	0004697	0449	14784								
		OBS	0600	0443	34920	2770			14784								
		STD	0700	0426	3492	2772	0004612	0496	14794								
		OBS	0700	0426	34919	2772			14794								
		STD	0800	0411	3491	2773	0004558	0542	14804								
		OBS	0800	0411	34915	2773			14804								
		STD	0900	0404	3492	2774	0004532	0587	14818								
		OBS	0900	0404	34920	2774			14818								
		STD	1000	0405	3494	2776	0004468	0632	14835								
		OBS	1000	0405	34943	2776			14835								
		STD	1100	0394	3493	2776	0004497	0677	14847								
		OBS	1100	0394	34933	2776			14847								
		OBS	1160	0394	34934	2776			14857								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44170N	047110W		149	47	06	01	058	1968	002	10254	4663	1	18	4	3		X5	0	3		0215

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	17	S35	135	106	106	6	28	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SUO
		STD	0000	0955	3408	2633	0017052	0000	14876								
058		OBS	0000	0955	34078	2633			14876								
		STD	0010	1078	3444	2640	0016405	0016	14926								
		OBS	0010	1078	34439	2640			14926								
		STD	0020	1152	3484	2657	0014757	0032	14959								
002		OBS	0020	1152	34840	2657			14959								
		OBS	0025	1089	34695	2658			14936								
		STD	0030	1083	3480	2667	0013872	0046	14936								
		OBS	0030	1083	34800	2667			14936								
		OBS	0040	1217	35355	2685			14992								
		STD	0050	1217	3536	2685	0012187	0072	14993								
		OBS	0050	1217	35360	2685			14993								
		STD	0075	1209	3542	2692	0011664	0102	14995								
		OBS	0075	1209	35420	2692			14995								
		STD	0100	1236	3550	2693	0011607	0131	15010								
		OBS	0100	1236	35505	2693			15010								
		STD	0125	1196	3539	2692	0011754	0160	14999								
		OBS	0125	1196	35393	2692			14999								
		STD	0150	1134	3528	2695	0011538	0189	14980								
		OBS	0150	1134	35277	2695			14980								
		OBS	0181	0916	34910	2704			14902								
		STD	0200	1039	3530	2714	0009830	0243	14955								
		OBS	0200	1039	35300	2714			14955								
		STD	0250	0956	3520	2720	0009290	0291	14931								
		OBS	0250	0956	35200	2720			14931								
		OBS	0285	0666	34739	2728			14820								
		STD	0300	0764	3492	2728	0008493	0335	14864								
		OBS	0300	0764	34920	2728			14864								
		OBS	0365	0596	34780	2741			14806								
		OBS	0390	0665	34991	2748			14841								
		STD	0400	0631	3498	2752	0006358	0409	14829								
		OBS	0400	0631	34980	2752			14829								
		OBS	0435	0543	34890	2756			14798								
		OBS	0455	0569	34932	2756			14812								
		STD	0500	0531	3490	2758	0005789	0470	14804								
		OBS	0500	0531	34902	2758			14804								
		STD	0600	0527	3503	2769	0004906	0524	14821								
		OBS	0600	0527	35030	2769			14821								
		STD	0700	0467	3494	2769	0004948	0573	14811								
		OBS	0700	0467	34940	2769			14811								
		STD	0800	0456	3497	2772	0004698	0621	14824								
		OBS	0800	0456	34970	2772			14824								
		STD	0900	0437	3497	2774	0004585	0668	14832								
		OBS	0900	0437	34967	2774			14832								
		STD	1000	0432	3497	2775	0004630	0714	14847								
		OBS	1000	0432	34966	2775			14847								
		OBS	1090	0408	34953	2776			14852								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	48350N	046100W		149	86	06	18	209	1968	003	10255	1973	1	10	1	2		X6	0	3		0216

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	10	S10	274	078	078	7	29	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0471	3384	2681	0012455	0000	14683								
209		OBS	0000	0471	33841	2681			14683								
		STD	0010	0440	3385	2685	0012112	0012	14672								
		OBS	0010	0440	33846	2685			14672								
		STD	0020	0419	3386	2688	0011803	0024	14665								
003		OBS	0020	0419	33860	2688			14665								
		OBS	0025	0405	33867	2690			14660								
		STD	0030	0400	3389	2693	0011395	0035	14659								
		OBS	0030	0400	33890	2693			14659								
		STD	0050	0340	3398	2706	0010167	0057	14638								
		OBS	0050	0340	33980	2706			14638								
		STD	0075	0270	3437	2743	0006633	0078	14617								
		OBS	0075	0270	34370	2743			14617								
		STD	0100	0280	3451	2753	0005677	0093	14627								
		OBS	0100	0280	34510	2753			14627								
		STD	0125	0358	3471	2762	0004907	0107	14668								
		OBS	0125	0358	34710	2762			14668								
		OBS	0130	0379	34720	2761			14677								
		OBS	0140	0344	34700	2763			14664								
		STD	0150	0354	3472	2763	0004801	0119	14670								
		OBS	0150	0354	34721	2763			14670								
		STD	0200	0402	3481	2766	0004624	0142	14700								
		OBS	0200	0402	34815	2766			14700								
		STD	0250	0400	3481	2766	0004662	0165	14707								
		OBS	0250	0400	34814	2766			14707								
		OBS	0265	0375	34800	2767			14699								
		OBS	0285	0385	34830	2769			14707								
		STD	0300	0375	3479	2767	0004610	0189	14705								
		OBS	0300	0375	34792	2767			14705								
		STD	0400	0370	3483	2770	0004371	0234	14720								
		OBS	0400	0370	34829	2770			14720								
		STD	0500	0388	3486	2771	0004401	0277	14744								
		OBS	0500	0388	34863	2771			14744								
		STD	0600	0383	3486	2772	0004431	0322	14759								
		OBS	0600	0383	34864	2772			14759								
		STD	0700	0380	3487	2773	0004418	0366	14774								
		OBS	0700	0380	34873	2773			14774								
		STD	0800	0379	3489	2774	0004380	0410	14791								
		OBS	0800	0379	34889	2774			14791								
		STD	0900	0380	3490	2775	0004408	0454	14808								
		OBS	0900	0380	34898	2775			14808								
		STD	1000	0375	3490	2775	0004431	0498	14822								
		OBS	1000	0375	34899	2775			14822								
		STD	1100	0369	3490	2776	0004439	0542	14837								
		OBS	1100	0369	34900	2776			14837								
		STD	1200	0363	3491	2777	0004374	0586	14851								
		OBS	1200	0363	34910	2777			14851								
		STD	1300	0360	3491	2778	0004411	0630	14866								
		OBS	1300	0360	34911	2778			14866								
		STD	1400	0358	3492	2779	0004407	0674	14882								
		OBS	1400	0358	34920	2779			14882								
		STD	1500	0350	3492	2780	0004371	0718	14896								
		OBS	1500	0350	34921	2780			14896								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	48190N	046130W		149	86	06	19	001	1968	003	10256	1097	1	10	2	3		X6	0	3		0217

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbar)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	11	S11	264	061	061	5	35	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0502	3393	2685	0012111	0000	14697								
001		OBS	0000	0502	33931	2685			14697								
		STD	0010	0453	3397	2693	0011316	0011	14679								
		OBS	0010	0453	33970	2693			14679								
		STD	0020	0432	3397	2696	0011108	0022	14671								
002		OBS	0020	0432	33970	2696			14671								
		OBS	0025	0402	33973	2699			14660								
		STD	0030	0346	3402	2709	0009873	0033	14637								
		OBS	0030	0346	34025	2709			14637								
		OBS	0032	0323	34150	2721			14630								
		OBS	0045	0314	34280	2732			14630								
		STD	0050	0280	3435	2741	0006854	0050	14617								
		OBS	0050	0280	34350	2741			14617								
		OBS	0057	0258	34380	2745			14609								
		STD	0075	0331	3461	2757	0005346	0065	14646								
		OBS	0075	0331	34612	2757			14646								
		OBS	0087	0331	34650	2760			14649								
		STD	0100	0355	3469	2761	0005002	0078	14662								
		OBS	0100	0355	34690	2761			14662								
		OBS	0114	0366	34709	2761			14669								
		STD	0125	0361	3472	2762	0004872	0090	14669								
		OBS	0125	0361	34718	2762			14669								
		OBS	0130	0366	34722	2762			14672								
		OBS	0135	0358	34735	2764			14669								
		STD	0150	0361	3476	2766	0004542	0102	14674								
		OBS	0150	0361	34765	2766			14674								
		OBS	0155	0374	34779	2766			14680								
		OBS	0175	0374	34790	2767			14684								
		OBS	0180	0387	34799	2766			14690								
		STD	0200	0393	3482	2767	0004511	0125	14696								
		OBS	0200	0393	34818	2767			14696								
		STD	0250	0402	3486	2769	0004357	0147	14709								
		OBS	0250	0402	34858	2769			14709								
		STD	0300	0409	3486	2769	0004447	0169	14720								
		OBS	0300	0409	34862	2769			14720								
		OBS	0355	0400	34881	2771			14725								
		OBS	0385	0410	34882	2770			14735								
		STD	0400	0407	3488	2770	0004390	0213	14736								
		OBS	0400	0407	34880	2770			14736								
		OBS	0435	0395	34870	2771			14736								
		OBS	0465	0396	34886	2772			14742								
		OBS	0480	0410	34899	2772			14751								
		STD	0500	0405	3491	2773	0004243	0256	14752								
		OBS	0500	0405	34909	2773			14752								
		STD	0600	0394	3490	2774	0004278	0299	14764								
		OBS	0600	0394	34901	2774			14764								
		STD	0700	0386	3490	2774	0004286	0342	14777								
		OBS	0700	0386	34900	2774			14777								
		STD	0800	0378	3490	2775	0004281	0384	14790								
		OBS	0800	0378	34901	2775			14790								
		STD	0900	0373	3491	2776	0004251	0427	14805								
		OBS	0900	0373	34908	2776			14805								
		STD	1000	0368	3491	2777	0004237	0469	14820								
		OBS	1000	0368	34914	2777			14820								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NDDC STATION NUMBER
318	039	EV	47580N	046100W		149	76	06	19	023	1968	003	10257	1152	1	11	1	2		X6	0	3		0218

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	12	S12	257	061	061	5	24	

MESSENGR TIME or HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0503	3395	2686	0012012	0000	14697								
023		OBS	0000	0503	33946	2686			14697								
		OBS	0005	0374	33801	2688			14642								
		STD	0010	0384	3398	2701	0010555	0011	14650								
001		OBS	0010	0384	33980	2701			14650								
		STD	0020	0378	3399	2703	0010400	0021	14649								
		OBS	0020	0378	33994	2703			14649								
		OBS	0025	0376	33999	2704			14649								
		STD	0030	0335	3398	2706	0010107	0032	14632								
		OBS	0030	0335	33980	2706			14632								
		OBS	0047	0245	33948	2712			14596								
		STD	0050	0254	3399	2714	0009352	0051	14601								
		OBS	0050	0254	33990	2714			14601								
		OBS	0073	0249	34400	2747			14608								
		STD	0075	0253	3442	2748	0006125	0070	14610								
		OBS	0075	0253	34418	2748			14610								
		STD	0100	0302	3457	2756	0005421	0085	14638								
		OBS	0100	0302	34570	2756			14638								
		STD	0125	0307	3462	2759	0005134	0098	14645								
		OBS	0140	0342	34678	2761			14663								
		STD	0150	0378	3473	2762	0004954	0111	14680								
		OBS	0150	0378	34733	2762			14680								
		STD	0200	0446	3490	2768	0004456	0134	14719								
		OBS	0200	0446	34900	2768			14719								
		STD	0250	0447	3488	2766	0004672	0157	14728								
		OBS	0250	0447	34880	2766			14728								
		STD	0300	0445	3490	2768	0004572	0180	14735								
		OBS	0300	0445	34898	2768			14735								
		STD	0400	0446	3492	2769	0004526	0226	14753								
		OBS	0400	0446	34919	2769			14753								
		STD	0500	0435	3491	2770	0004538	0271	14765								
		OBS	0500	0435	34915	2770			14765								
		STD	0600	0414	3491	2772	0004459	0316	14772								
		OBS	0600	0414	34907	2772			14772								
		STD	0700	0398	3490	2773	0004431	0360	14782								
		OBS	0700	0398	34899	2773			14782								
		STD	0800	0384	3490	2774	0004381	0404	14793								
		OBS	0800	0384	34896	2774			14793								
		STD	0900	0376	3489	2775	0004391	0448	14806								
		OBS	0900	0376	34894	2775			14806								
		STD	1000	0369	3490	2776	0004337	0492	14820								
		OBS	1000	0369	34902	2776			14820								
		OBS	1050	0363	34914	2778			14826								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47400N	04610W		149	76	06	19	043	1968	003	10258	1079	1	12	1	3		X6	0	3		0219

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	18	S08	244	067	067	4	32	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0477	3368	2668	0013713	0000	14683								
043		OBS	0000	0477	33683	2668			14683								
		STD	0010	0323	3379	2692	0011412	0012	14621								
		OBS	0010	0323	33792	2692			14621								
002		OBS	0012	0295	33835	2698			14610								
		STD	0020	0308	3390	2702	0010496	0023	14618								
		OBS	0020	0308	33896	2702			14618								
		OBS	0022	0315	33918	2703			14621								
		OBS	0025	0270	33927	2708			14603								
		STD	0030	0243	3396	2713	0009467	0033	14592								
		OBS	0038	0232	34084	2724			14590								
		OBS	0046	0261	34285	2737			14607								
		STD	0050	0260	3432	2740	0006897	0049	14608								
		OBS	0050	0260	34322	2740			14608								
		OBS	0063	0254	34420	2748			14609								
		STD	0075	0260	3447	2752	0005801	0065	14614								
		OBS	0075	0260	34469	2752			14614								
		STD	0100	0292	3455	2756	0005446	0079	14633								
		OBS	0100	0292	34554	2756			14633								
		STD	0125	0322	3463	2759	0005166	0093	14651								
		OBS	0125	0322	34630	2759			14651								
		STD	0150	0333	3469	2763	0004838	0105	14661								
		OBS	0150	0333	34690	2763			14661								
		STD	0200	0378	3477	2765	0004684	0129	14689								
		OBS	0200	0378	34775	2765			14689								
		OBS	0227	0435	34870	2767			14719								
		STD	0250	0435	3488	2767	0004575	0152	14723								
		OBS	0250	0435	34875	2767			14723								
		OBS	0258	0444	34870	2766			14728								
		OBS	0271	0428	34861	2767			14723								
		OBS	0275	0446	34885	2767			14732								
		STD	0300	0449	3491	2769	0004494	0175	14737								
		OBS	0300	0449	34914	2769			14737								
		OBS	0327	0435	34889	2768			14736								
		OBS	0338	0448	34929	2770			14743								
		STD	0400	0431	3491	2770	0004458	0219	14746								
		OBS	0400	0431	34906	2770			14746								
		OBS	0411	0438	34922	2770			14751								
		STD	0500	0417	3491	2772	0004382	0264	14757								
		OBS	0500	0417	34909	2772			14757								
		STD	0600	0403	3491	2773	0004327	0307	14768								
		OBS	0600	0403	34908	2773			14768								
		STD	0700	0389	3490	2774	0004318	0350	14778								
		OBS	0700	0389	34900	2774			14778								
		STD	0800	0379	3490	2775	0004300	0394	14791								
		OBS	0800	0379	34899	2775			14791								
		STD	0900	0369	3490	2776	0004260	0436	14803								
		OBS	0900	0369	34901	2776			14803								
		OBS	0960	0361	34918	2778			14810								
		STD	1000	0359	3492	2779	0004082	0478	14816								
		OBS	1000	0359	34921	2779			14816								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47190N	046100W		149	76	06	19	066	1968	003	10259	0439	1	12	1	3		X6	0	3		0220

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	21	S08	240	089	089	4	27	

MESSENGR. TIME OF CAST HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ ΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0698	3369	2641	0016256	0000	14773								
066		OBS	0000	0698	33690	2641			14773								
		STD	0010	0609	3369	2653	0015155	0015	14739								
		OBS	0010	0609	33690	2653			14739								
		STD	0020	0604	3369	2654	0015086	0030	14738								
001		OBS	0020	0604	33693	2654			14738								
		OBS	0023	0595	33712	2656			14736								
		OBS	0025	0609	33730	2656			14742								
		OBS	0027	0614	33738	2656			14744								
		STD	0030	0607	3375	2658	0014710	0045	14742								
		OBS	0030	0607	33750	2658			14742								
		STD	0050	0622	3385	2664	0014141	0074	14753								
		OBS	0050	0622	33854	2664			14753								
		OBS	0072	0339	33840	2695			14639								
		STD	0075	0345	3394	2702	0010519	0105	14643								
		OBS	0075	0345	33942	2702			14643								
		OBS	0084	0384	34202	2719			14665								
		OBS	0093	0358	34190	2721			14655								
		STD	0100	0395	3440	2734	0007573	0128	14675								
		OBS	0100	0395	34400	2734			14675								
		OBS	0117	0429	34450	2734			14693								
		OBS	0122	0413	34447	2735			14687								
		STD	0125	0430	3449	2737	0007281	0146	14695								
		OBS	0125	0430	34490	2737			14695								
		OBS	0128	0436	34500	2737			14698								
		OBS	0132	0411	34477	2738			14688								
		STD	0150	0427	3450	2738	0007197	0164	14698								
		OBS	0150	0427	34500	2738			14698								
		OBS	0157	0403	34542	2744			14690								
		STD	0200	0455	3476	2756	0005630	0196	14721								
		OBS	0200	0455	34757	2756			14721								
		STD	0250	0448	3482	2761	0005149	0223	14727								
		OBS	0250	0448	34818	2761			14727								
		OBS	0265	0457	34858	2763			14734								
		STD	0300	0448	3488	2766	0004762	0248	14736								
		OBS	0300	0448	34877	2766			14736								
		OBS	0338	0435	3589P	2648P											
		OBS	0373	0400	34860	2770			14728								
		OBS	0387	0398	34895	2773			14730								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NDDC STATION NUMBER
318	039	EV	47000N	046100W		149	76	06	19	082	1968	003	10260	0311	1	19	1	2		X6	0	3		0221

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S10	240	100	100	2	27	

MESSENGR TIME of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0730	3381	2646	0015776	0000	14787								
082		OBS	0000	0730	33810	2646			14787								
		STD	0010	0652	3375	2652	0015237	0015	14757								
		OBS	0010	0652	33750	2652			14757								
		STD	0020	0609	3379	2661	0014417	0030	14742								
001		OBS	0020	0609	33790	2661			14742								
		OBS	0025	0615	33827	2663			14745								
		STD	0030	0620	3383	2663	0014232	0044	14748								
		OBS	0030	0620	33835	2663			14748								
		OBS	0037	0618	33850	2664			14749								
		OBS	0041	0635	33860	2663			14756								
		OBS	0045	0620	33900	2668			14752								
		STD	0050	0650	3408	2678	0012797	0071	14767								
		OBS	0050	0650	34080	2678			14767								
		OBS	0072	0733	34250	2680			14805								
		STD	0075	0654	3410	2679	0012734	0103	14773								
		OBS	0075	0654	34100	2679			14773								
		OBS	0080	0645	34333	2699			14773								
		OBS	0090	0685	34475	2705			14792								
		STD	0100	0684	3449	2706	0010258	0132	14794								
		OBS	0100	0684	34490	2706			14794								
		OBS	0109	0664	34450	2706			14787								
		OBS	0120	0610	34360	2706			14766								
		STD	0125	0516	3432	2714	0009498	0157	14728								
		OBS	0125	0516	34320	2714			14728								
		OBS	0130	0515	34320	2714			14729								
		OBS	0137	0451	34291	2719			14703								
		STD	0150	0438	3426	2718	0009111	0180	14699								
		OBS	0150	0438	34260	2718			14699								
		OBS	0164	0406	34380	2731			14690								
		OBS	0188	0491	34670	2745			14733								
		STD	0200	0491	3466	2744	0006719	0219	14735								
		OBS	0200	0491	34665	2744			14735								
		OBS	0230	0385	34620	2752			14695								
		STD	0250	0448	3480	2759	0005302	0249	14727								
		OBS	0250	0448	34797	2759			14727								
		OBS	0262	0462	34835	2761			14735								
		OBS	0288	0464	34895	2765			14741								

REFERENCE: CTRY CODE	REFERENCE: IQ. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47000N	046310W		149	76	06	19	097	1968	003	10261	0494	1	20	1	2		X6	0	3		0222

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S08	230	088	088	2	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	
		STD	0000	0729	3376	2642	0016138	0000	14786								
097		OBS	0000	0729	33760	2642			14786								
		STD	0010	0656	3376	2652	0015229	0015	14758								
		OBS	0010	0656	33757	2652			14758								
		STD	0020	0638	3376	2655	0014997	0030	14753								
001		OBS	0020	0638	33760	2655			14753								
		OBS	0025	0636	33764	2655			14753								
		STD	0030	0632	3377	2656	0014884	0045	14752								
		OBS	0030	0632	33767	2656			14752								
		OBS	0042	0627	33779	2658			14752								
		STD	0050	0325	3325	2649	0015542	0076	14621								
		OBS	0050	0325	33250	2649			14621								
		OBS	0055	0450	33952	2692			14684								
		OBS	0059	0304	33700	2687			14620								
		OBS	0062	0404	34040	2704			14668								
		STD	0075	0369	3416	2717	0009107	0107	14656								
		OBS	0075	0369	34160	2717			14656								
		OBS	0098	0358	34305	2730			14658								
		STD	0100	0371	3435	2732	0007675	0127	14664								
		OBS	0100	0371	34355	2732			14664								
		OBS	0115	0427	34490	2737			14692								
		STD	0125	0389	3444	2737	0007242	0146	14677								
		OBS	0125	0389	34440	2737			14677								
		OBS	0140	0418	34590	2746			14694								
		STD	0150	0280	3440	2745	0006538	0163	14634								
		OBS	0150	0280	34400	2745			14634								
		OBS	0152	0272	34420	2747			14631								
		OBS	0165	0398	34592	2749			14689								
		OBS	0175	0447	34750	2756			14714								
		OBS	0190	0453	34748	2755			14719								
		OBS	0197	0444	34785	2759			14717								
		STD	0200	0454	3479	2758	0005378	0193	14721								
		OBS	0200	0454	34789	2758			14721								
		OBS	0233	0448	34830	2762			14725								
		STD	0250	0471	3487	2763	0005001	0219	14738								
		OBS	0250	0471	34872	2763			14738								
		OBS	0267	0462	34880	2765			14737								
		OBS	0274	0461	34890	2765			14738								
		STD	0300	0455	3489	2766	0004741	0243	14739								
		OBS	0300	0455	34890	2766			14739								
		OBS	0330	0452	34900	2767			14743								
		OBS	0398	0418	34910	2772			14741								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47000N	046450W		149	76	06	19	107	1968	003	10262	1189	1	20	1	2		X2	0	3		0223

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S08	227	072	072	2	37	

MESSENGER TIME or HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	S C
		STD	0000	0468	3338	2645	0015894	0000	14675								
107		OBS	0000	0468	33380	2645			14675								
		OBS	0007	0337	33380	2658			14621								
		STD	0010	0344	3356	2672	0013348	0014	14627								
005		OBS	0010	0344	33560	2672			14627								
		STD	0020	0335	3364	2679	0012667	0027	14626								
		OBS	0020	0335	33640	2679			14626								
		OBS	0025	0289	33580	2678			14606								
		STD	0030	0250	3360	2683	0012260	0040	14590								
		OBS	0030	0250	33600	2683			14590								
		OBS	0035	0212	33650	2690			14575								
		OBS	0045	0203	33720	2697			14574								
		STD	0050	0362	3427	2727	0008192	0060	14651								
		OBS	0050	0362	34270	2727			14651								
		OBS	0053	0378	34290	2727			14658								
		STD	0075	0339	3427	2729	0007991	0080	14645								
		OBS	0075	0339	34270	2729			14645								
		OBS	0093	0369	34440	2739			14663								
		STD	0100	0230	3429	2740	0006917	0099	14603								
		OBS	0100	0230	34290	2740			14603								
		OBS	0103	0230	34300	2741			14603								
		STD	0125	0266	3447	2751	0005887	0115	14625								
		STD	0150	0311	3461	2759	0005234	0129	14650								
		OBS	0150	0311	34610	2759			14650								
		OBS	0185	0380	34720	2761			14687								
		STD	0200	0376	3471	2760	0005151	0155	14687								
		OBS	0200	0376	34710	2760			14687								
		OBS	0220	0404	34788	2764			14704								
		OBS	0225	0392	34780	2764			14699								
		STD	0250	0431	3486	2766	0004645	0179	14721								
		OBS	0250	0431	34860	2766			14721								
		OBS	0260	0439	34860	2765			14726								
		OBS	0272	0407	34800	2764			14714								
		OBS	0293	0417	34860	2768			14722								
		STD	0300	0412	3483	2766	0004718	0203	14721								
		OBS	0300	0412	34830	2766			14721								
		OBS	0321	0402	34835	2767			14720								
		OBS	0350	0439	34890	2768			14741								
		OBS	0371	0420	34870	2768			14736								
		STD	0400	0426	3489	2769	0004525	0249	14744								
		OBS	0400	0426	34890	2769			14744								
		OBS	0450	0432	34908	2770			14755								
		OBS	0485	0428	34900	2770			14759								
		STD	0500	0418	3489	2770	0004536	0294	14757								
		OBS	0500	0418	34890	2770			14757								
		STD	0600	0399	3489	2772	0004392	0339	14766								
		OBS	0600	0399	34893	2772			14766								
		STD	0700	0387	3489	2774	0004359	0383	14777								
		OBS	0700	0387	34892	2774			14777								
		STD	0800	0377	3489	2774	0004341	0426	14790								
		OBS	0800	0377	34891	2774			14790								
		STD	0900	0369	3489	2775	0004322	0469	14803								
		OBS	0900	0369	34893	2775			14803								
		STD	1000	0368	3490	2776	0004308	0513	14819								
		OBS	1000	0368	34904	2776			14819								
		OBS	1050	0366	34912	2777			14827								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	46590N	047000W		149	67	06	19	123	1968	003	10263	1097	1	20	1	2		X2	0	3		0224

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mba)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	21	S09	227	083	083	2	26	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	S C D
		STD	0000	0360	3335	2654	0015070	0000	14629								
123		OBS	0000	0360	33350	2654			14629								
		STD	0010	0360	3368	2680	0012589	0013	14636								
		OBS	0010	0360	33680	2680			14636								
		STD	0020	0320	3370	2685	0012088	0026	14620								
003		OBS	0020	0320	33700	2685			14620								
		OBS	0025	0235	33752	2697			14585								
		STD	0030	0240	3382	2702	0010515	0037	14589								
		OBS	0030	0240	33820	2702			14589								
		OBS	0040	0289	33890	2703			14613								
		STD	0050	0298	3391	2704	0010324	0058	14619								
		OBS	0050	0298	33910	2704			14619								
		OBS	0065	0210	34060	2723			14585								
		STD	0075	0205	3410	2727	0008154	0081	14585								
		OBS	0075	0205	34100	2727			14585								
		OBS	0090	0162	34210	2739			14570								
		OBS	0095	0224	34290	2741			14599								
		STD	0100	0217	3432	2744	0006589	0099	14597								
		OBS	0100	0217	34320	2744			14597								
		STD	0125	0250	3446	2752	0005809	0115	14618								
		OBS	0125	0250	34460	2752			14618								
		STD	0150	0287	3458	2758	0005234	0129	14639								
		OBS	0150	0287	34581	2758			14639								
		STD	0200	0351	3470	2762	0004976	0154	14677								
		OBS	0200	0351	34700	2762			14677								
		STD	0250	0386	3478	2765	0004734	0178	14701								
		OBS	0250	0386	34785	2765			14701								
		STD	0300	0402	3483	2767	0004612	0202	14717								
		OBS	0300	0402	34830	2767			14717								
		STD	0400	0418	3487	2769	0004580	0248	14740								
		OBS	0400	0418	34870	2769			14740								
		STD	0500	0425	3488	2769	0004687	0294	14760								
		OBS	0500	0425	34880	2769			14760								
		OBS	0510	0418	34895	2771			14759								
		OBS	0550	0422	34910	2771			14767								
		STD	0600	0410	3490	2772	0004471	0340	14770								
		OBS	0600	0410	34899	2772			14770								
		STD	0700	0398	3490	2773	0004422	0384	14782								
		OBS	0700	0398	34900	2773			14782								
		STD	0800	0389	3490	2774	0004409	0429	14795								
		OBS	0800	0389	34900	2774			14795								
		STD	0900	0373	3489	2775	0004384	0473	14805								
		OBS	0900	0373	34890	2775			14805								
		STD	1000	0370	3490	2776	0004366	0516	14820								
		OBS	1000	0370	34900	2776			14820								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47000N	047140W		149	77	06	19	135	1968	003	10264	0366	1	20	1	2		X2	0	3		0225

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	22	S09	220	083	083	2	18	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOD
		STD	0000	0332	3289	2620	0018293	0000	14611								
135		OBS	0000	0332	32890	2620			14611								
		STD	0010	0162	3318	2657	0014764	0016	14543								
		OBS	0010	0162	33185	2657			14543								
		STD	0020	0176	3334	2669	0013653	0030	14553								
002		OBS	0020	0176	33344	2669			14553								
		OBS	0025	0184	33367	2670			14557								
		STD	0030	0190	3336	2669	0013630	0044	14561								
		OBS	0030	0190	33360	2669			14561								
		STD	0050	0040	3352	2691	0011490	0069	14499								
		OBS	0050	0040	33520	2691			14499								
		OBS	0065	0060	33580	2695			14511								
		STD	0075	-0014	3370	2709	0009842	0096	14481								
		OBS	0075	-0014	33700	2709			14481								
		STD	0100	0050	3395	2725	0008266	0118	14518								
		OBS	0100	0050	33950	2725			14518								
		OBS	0115	0105	34000	2726			14546								
		OBS	0120	0082	34060	2732			14537								
		STD	0125	0110	3416	2739	0006997	0137	14552								
		OBS	0125	0110	34165	2739			14552								
		OBS	0145	0150	34214	2740			14574								
		STD	0150	0180	3434	2748	0006201	0154	14589								
		OBS	0150	0180	34336	2748			14589								
		STD	0200	0275	3453	2756	0005504	0183	14642								
		OBS	0200	0275	34535	2756			14642								
		STD	0250	0342	3470	2763	0004931	0209	14681								
		OBS	0250	0342	34700	2763			14681								
		STD	0300	0378	3474	2763	0005016	0234	14705								
		OBS	0300	0378	34742	2763			14705								
		OBS	0305	0382	34750	2763			14708								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47000N	047300W		149	77	06	19	146	1968	003	10265	0216	1	20	1	3		X2	0	3		0226

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	22	S09	196	083	083	2	12	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOD
		STD	0000	0364	3256	2591	0021065	0000	14620								
146		OBS	0000	0364	32560	2591			14620								
		STD	0010	0185	3264	2612	0019019	0020	14545								
		OBS	0010	0185	32644	2612			14545								
		STD	0020	0115	3268	2620	0018265	0038	14516								
002		OBS	0020	0115	32685	2620			14516								
		OBS	0025	0094	32760	2627			14509								
		STD	0030	0084	3284	2634	0016922	0056	14506								
		OBS	0030	0084	32838	2634			14506								
		STD	0050	-0130	3303	2659	0014547	0087	14413								
		OBS	0050	-0130	33030	2659			14413								
		OBS	0062	-0152	33270	2679			14408								
		STD	0075	-0062	3346	2691	0011466	0120	14455								
		OBS	0075	-0062	33460	2691			14455								
		OBS	0090	-0014	33500	2692			14481								
		STD	0100	0000	3355	2696	0011040	0148	14489								
		OBS	0100	0000	33551	2696			14489								
		STD	0125	0042	3378	2712	0009516	0174	14516								
		OBS	0125	0042	33780	2712			14516								
		STD	0150	0111	3396	2723	0008560	0196	14554								
		OBS	0150	0111	33961	2723			14554								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47000N	047425W		149	77	06	19	154	1968	003	10266	0188	1	20	1	2		X4	0	3		0227

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	22	S08	200	067	067	2	11	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOCD
		STD	0000	0404	3253	2584	0021654	0000	14637								
154		OBS	0000	0404	32530	2584			14637								
		STD	0010	0224	3254	2601	0020088	0020	14561								
		OBS	0010	0224	32540	2601			14561								
		STD	0020	0216	3255	2602	0019954	0040	14559								
002		OBS	0020	0216	32550	2602			14559								
		OBS	0025	0172	32520	2603			14540								
		STD	0030	0120	3250	2605	0019704	0060	14518								
		OBS	0030	0120	32500	2605			14518								
		STD	0050	-0064	3282	2640	0016357	0096	14441								
		OBS	0050	-0064	32821	2640			14441								
		STD	0075	-0117	3298	2654	0014949	0135	14423								
		OBS	0075	-0117	32980	2654			14423								
		OBS	0081	-0139	33020	2658			14414								
		STD	0100	-0123	3316	2669	0013532	0171	14427								
		OBS	0100	-0123	33160	2669			14427								
		STD	0125	-0056	3336	2683	0012232	0203	14465								
		OBS	0125	-0056	33360	2683			14465								
		STD	0150	0050	3370	2705	0010166	0231	14522								
		OBS	0150	0050	33700	2705			14522								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47000N	048000W		149	78	06	19	166	1968	003	10267	0152	1	20	1	2		X2	0	3		0228

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S12	190	067	067	2	15	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOCD
		STD	0000	0461	3260	2584	0021681	0000	14662								
166		OBS	0000	0461	32600	2584			14662								
		STD	0010	0250	3256	2600	0020134	0020	14573								
		OBS	0010	0250	32559	2600			14573								
002		OBS	0015	0243	32579	2602			14571								
		STD	0020	0242	3258	2603	0019929	0040	14571								
		OBS	0020	0242	32579	2603			14571								
		OBS	0025	0223	32570	2603			14564								
		STD	0030	0211	3257	2605	0019730	0060	14559								
		OBS	0030	0211	32575	2605			14559								
		OBS	0040	0156	32555	2607			14536								
		STD	0050	-0029	3272	2630	0017266	0097	14456								
		OBS	0050	-0029	32720	2630			14456								
		STD	0075	-0143	3306	2662	0014257	0137	14412								
		OBS	0075	-0143	33060	2662			14412								
		OBS	0083	-0130	33100	2664			14420								
		OBS	0095	-0119	33250	2676			14429								
		STD	0100	-0045	3332	2679	0012598	0170	14465								
		OBS	0100	-0045	33320	2679			14465								
		OBS	0110	-0021	33520	2694			14481								
		OBS	0115	0028	33540	2694			14504								
		STD	0125	0014	3355	2695	0011120	0200	14500								
		OBS	0125	0014	33549	2695			14500								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47000N	048150W		149	78	06	19	176	1968	003	10268	0137	1	20	2	2		X4	0	3		0229

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S16	180	072	072	2	13	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	S C D
		STD	0000	0470	3262	2585	0021627	0000	14666								
176		OBS	0000	0470	32620	2585			14666								
		OBS	0005	0350	32593	2594			14616								
		STD	0010	0318	3265	2602	0020000	0020	14604								
002		OBS	0010	0318	32649	2602			14604								
		STD	0020	0308	3264	2602	0019959	0040	14601								
		OBS	0020	0308	32643	2602			14601								
		OBS	0025	0288	32609	2601			14593								
		STD	0030	0200	3250	2600	0020181	0060	14553								
		OBS	0030	0200	32505	2600			14553								
		OBS	0040	0080	32680	2622			14504								
		STD	0050	-0009	3290	2644	0015976	0097	14468								
		OBS	0050	-0009	32900	2644			14468								
		OBS	0063	-0025	33070	2658			14465								
		STD	0075	-0014	3320	2669	0013616	0134	14474								
		OBS	0075	-0014	33205	2669			14474								
		OBS	0090	0005	33360	2680			14487								
		STD	0100	0031	3350	2690	0011581	0165	14503								
		OBS	0100	0031	33500	2690			14503								
		OBS	0120	0059	33620	2698			14520								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44380N	049200W		149	49	06	20	063	1968	003	10269	0062	1	22	1	2		X0	0	3		0230

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S10	210	089	089	8	07	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	S C D
		STD	0000	0637	3260	2564	0023593	0000	14734								
063		OBS	0000	0637	32605	2564			14734								
		OBS	0001	0455	32660	2589			14660								
002		OBS	0008	0450	32696	2593			14660								
		STD	0010	0440	3269	2594	0020782	0022	14656								
		OBS	0010	0440	32693	2594			14656								
		STD	0020	0295	3276	2612	0019008	0042	14597								
		OBS	0025	0251	32798	2619			14579								
		STD	0030	0225	3285	2625	0017766	0060	14569								
		OBS	0030	0225	32848	2625			14569								
		STD	0050	0156	3301	2643	0016044	0094	14544								
		OBS	0050	0156	33012	2643			14544								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44350N	049040W		149	49	06	20	076	1968	003	10270	0068	1	22	1	2		X0	0	3		0231

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	21	S08	210	089	089	7	08	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	S C D
		STD	0000	0583	3267	2576	0022433	0000	14713								
076		OBS	0000	0583	32675	2576			14713								
		STD	0010	0420	3260	2588	0021289	0021	14646								
		OBS	0010	0420	32600	2588			14646								
		STD	0020	0240	3264	2608	0019448	0042	14571								
002		OBS	0020	0240	32640	2608			14571								
		OBS	0025	0115	32808	2630			14519								
		STD	0030	0081	3286	2636	0016750	0060	14505								
		OBS	0030	0081	32858	2636			14505								
		OBS	0037	0045	32935	2644			14491								
		STD	0050	0044	3295	2645	0015848	0092	14493								
		OBS	0050	0044	32951	2645			14493								
		OBS	0057	0041	32955	2646			14493								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44335N	048570W		149	48	06	20	083	1968	003	10271	0732	1	22	1	2		X1	0	3		0232

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	22	S08	213	094	089	8	26	

MESSENGR TIME or HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0479	3266	2587	0021427	0000	14670								
083		OBS	0000	0479	32658	2587			14670								
		STD	0010	0200	3265	2612	0019064	0020	14552								
		OBS	0010	0200	32652	2612			14552								
		STD	0020	0017	3267	2624	0017852	0038	14472								
002		OBS	0020	0017	32671	2624			14472								
		OBS	0025	-0079	32707	2631			14429								
		STD	0030	-0104	3274	2635	0016861	0056	14418								
		OBS	0030	-0104	32739	2635			14418								
		OBS	0040	-0129	33133	2667			14414								
		STD	0050	-0129	3318	2671	0013409	0086	14416								
		OBS	0050	-0129	33178	2671			14416								
		OBS	0072	-0115	33278	2678			14428								
		STD	0075	-0095	3330	2680	0012542	0118	14438								
		OBS	0075	-0095	33304	2680			14438								
		OBS	0090	0024	33611	2700			14499								
		STD	0100	0032	3363	2701	0010598	0147	14505								
		OBS	0100	0032	33631	2701			14505								
		STD	0125	0056	3370	2705	0010215	0173	14521								
		OBS	0125	0056	33698	2705			14521								
		STD	0150	0064	3374	2708	0009929	0198	14529								
		OBS	0150	0064	33742	2708			14529								
		STD	0200	0085	3381	2712	0009552	0247	14548								
		OBS	0200	0085	33808	2712			14548								
		OBS	0243	0101	33895	2718			14563								
		STD	0250	0123	3397	2723	0008564	0292	14576								
		OBS	0250	0123	33973	2723			14576								
		OBS	0280	0252	34400	2747			14643								
		STD	0300	0300	3453	2754	0005801	0328	14669								
		OBS	0300	0300	34535	2754			14669								
		OBS	0320	0343	34639	2758			14692								
		OBS	0350	0355	34649	2757			14702								
		STD	0400	0395	3476	2762	0005176	0383	14729								
		OBS	0400	0395	34757	2762			14729								
		OBS	0450	0409	34779	2762			14744								
		STD	0500	0414	3481	2764	0005094	0435	14754								
		OBS	0500	0414	34809	2764			14754								
		STD	0600	0425	3487	2768	0004859	0484	14776								
		OBS	0600	0425	34870	2768			14776								
		OBS	0650	0426	34880	2768			14785								
		STD	0700	0420	3488	2770	0004789	0533	14791								
		OBS	0700	0420	34885	2770			14791								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
	318039	EV	44310N	048440W		149	48	06	20	094	1968	003	10272	1792	1	22	0	2		X1	0	3		0233

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	S0	26	S08	220	111	100	7	32	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0440	3267	2592	0020929	0000	14654								
094		OBS	0000	0440	32673	2592			14654								
		STD	0010	0225	3298	2636	0016738	0018	14568								
		OBS	0010	0225	32983	2636			14568								
		STD	0020	0213	3308	2645	0015881	0035	14565								
003		OBS	0020	0213	33085	2645			14565								
		OBS	0025	0213	33168	2652			14567								
		STD	0030	0183	3322	2658	0014615	0050	14556								
		OBS	0030	0183	33223	2658			14556								
		OBS	0038	0139	33420	2677			14540								
		OBS	0045	0155	33640	2694			14551								
		STD	0050	0149	3371	2700	0010692	0075	14551								
		OBS	0050	0149	33710	2700			14551								
		OBS	0055	0138	33780	2706			14547								
		OBS	0067	0142	33845	2711			14552								
		STD	0075	0135	3391	2717	0009079	0100	14551								
		OBS	0075	0135	33912	2717			14551								
		OBS	0085	0119	33940	2720			14546								
		STD	0100	0147	3414	2734	0007436	0121	14564								
		OBS	0100	0147	34140	2734			14564								
		STD	0125	0189	3427	2742	0006781	0138	14588								
		OBS	0125	0189	34268	2742			14588								
		STD	0150	0226	3438	2748	0006228	0155	14610								
		OBS	0150	0226	34380	2748			14610								
		STD	0200	0324	3460	2756	0005493	0184	14664								
		OBS	0200	0324	34597	2756			14664								
		OBS	0219	0348	34638	2757			14678								
		STD	0250	0356	3465	2758	0005407	0211	14686								
		OBS	0250	0356	34655	2758			14686								
		OBS	0270	0358	34670	2759			14691								
		STD	0300	0397	3476	2762	0005048	0237	14714								
		OBS	0300	0397	34765	2762			14714								
		STD	0400	0448	3488	2766	0004860	0287	14753								
		OBS	0400	0448	34878	2766			14753								
		STD	0500	0451	3491	2768	0004772	0335	14771								
		OBS	0500	0451	34909	2768			14771								
		STD	0600	0440	3492	2770	0004675	0382	14783								
		OBS	0600	0440	34918	2770			14783								
		STD	0700	0428	3491	2771	0004669	0429	14795								
		OBS	0700	0428	34914	2771			14795								
		STD	0800	0413	3491	2772	0004624	0475	14805								
		OBS	0800	0413	34909	2772			14805								
		STD	0900	0404	3490	2773	0004647	0522	14818								
		OBS	0900	0404	34905	2773			14818								
		STD	1000	0397	3490	2774	0004653	0568	14832								
		OBS	1000	0397	34905	2774			14832								
		STD	1100	0393	3490	2774	0004698	0615	14847								
		OBS	1100	0393	34905	2774			14847								
		STD	1200	0389	3491	2775	0004723	0662	14862								
		OBS	1200	0389	34907	2775			14862								
		STD	1300	0388	3491	2775	0004772	0710	14878								
		OBS	1300	0388	34910	2775			14878								
		STD	1400	0384	3491	2776	0004784	0757	14893								
		OBS	1400	0384	34913	2776			14893								
		STD	1500	0382	3492	2776	0004793	0805	14909								
		OBS	1500	0382	34920	2776			14909								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIFF INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	44285N	04829 W		149	48	06	20	111	1968	003	10273	2505	1	22	2	2		X1	0	3		0234

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S08	224	122	100	7	31	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	ΣΔO DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SUO
		STD	0000	0555	3296	2602	0019987	0000	14706								
111		OBS	0000	0555	32959	2602			14706								
		STD	0010	0600	3332	2625	0017816	0018	14730								
		OBS	0010	0600	33320	2625			14730								
		STD	0020	0520	3327	2631	0017254	0036	14699								
003		OBS	0020	0520	33275	2631			14699								
		OBS	0025	0500	33400	2643			14693								
		STD	0030	0250	3354	2679	0012712	0051	14589								
		OBS	0030	0250	33540	2679			14589								
		OBS	0047	0135	33430	2678			14540								
		STD	0050	0177	3374	2700	0010660	0074	14563								
		OBS	0050	0177	33740	2700			14563								
		STD	0075	0300	3420	2727	0008173	0098	14628								
		OBS	0075	0300	34200	2727			14628								
		STD	0100	0360	3441	2738	0007158	0117	14660								
		OBS	0100	0360	34410	2738			14660								
		STD	0125	0582	3474	2739	0007102	0135	14761								
		OBS	0125	0582	34744	2739			14761								
		STD	0150	0402	3445	2737	0007314	0153	14687								
		OBS	0150	0402	34450	2737			14687								
		OBS	0155	0510	34600	2737			14734								
		OBS	0160	0350	34600	2754			14668								
		OBS	0175	0338	34550	2751			14665								
		OBS	0190	0400	34640	2752			14695								
		STD	0200	0376	3467	2757	0005447	0185	14687								
		OBS	0200	0376	34670	2757			14687								
		STD	0250	0425	3477	2760	0005252	0212	14717								
		OBS	0250	0425	34770	2760			14717								
		STD	0300	0462	3488	2765	0004898	0237	14742								
		OBS	0300	0462	34880	2765			14742								
		STD	0400	0462	3491	2767	0004775	0285	14759								
		OBS	0400	0462	34911	2767			14759								
		STD	0500	0442	3491	2769	0004663	0332	14767								
		OBS	0500	0442	34909	2769			14767								
		STD	0600	0439	3493	2771	0004575	0379	14783								
		OBS	0600	0439	34930	2771			14783								
		STD	0700	0421	3493	2773	0004479	0424	14792								
		OBS	0700	0421	34929	2773			14792								
		STD	0800	0403	3490	2773	0004543	0469	14801								
		OBS	0800	0403	34904	2773			14801								
		OBS	0825	0405	34910	2773			14806								
		STD	0900	0397	3490	2773	0004570	0515	14815								
		OBS	0900	0397	34904	2773			14815								
		STD	1000	0393	3491	2774	0004563	0560	14830								
		OBS	1000	0393	34910	2774			14830								
		STD	1100	0389	3491	2775	0004616	0606	14845								
		OBS	1100	0389	34909	2775			14845								
		STD	1200	0388	3492	2776	0004614	0652	14861								
		OBS	1200	0388	34919	2776			14861								
		STD	1300	0388	3493	2776	0004631	0699	14878								
		OBS	1300	0388	34929	2776			14878								
		STD	1400	0385	3493	2777	0004665	0745	14894								
		OBS	1400	0385	34931	2777			14894								
		STD	1500	0383	3494	2778	0004665	0792	14910								
		OBS	1500	0383	34939	2778			14910								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPL INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44260N	048150W		149	48	06	20	138	1968	003	10274	3310	1	22	1	3		X1	0	3		0235

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S08	230	120	110	7	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SOC
		STD	0000	0704	3297	2584	0021681	0000	14765								
138		OBS	0000	0704	32973	2584			14765								
		STD	0010	0487	3300	2613	0018954	0020	14680								
		OBS	0010	0487	33000	2613			14680								
		STD	0020	0415	3311	2629	0017412	0038	14653								
003		OBS	0020	0415	33109	2629			14653								
		OBS	0025	0410	33140	2632			14652								
		STD	0030	0350	3318	2641	0016274	0055	14628								
		OBS	0030	0350	33180	2641			14628								
		STD	0050	0200	3340	2671	0013401	0085	14569								
		OBS	0050	0200	33400	2671			14569								
		OBS	0068	0131	33700	2700			14545								
		STD	0075	0155	3388	2713	0009453	0113	14560								
		OBS	0075	0155	33880	2713			14560								
		STD	0100	0234	3415	2729	0007982	0135	14602								
		OBS	0100	0234	34154	2729			14602								
		STD	0125	0288	3437	2742	0006813	0153	14633								
		OBS	0125	0288	34370	2742			14633								
		STD	0150	0449	3466	2749	0006232	0170	14709								
		OBS	0150	0449	34660	2749			14709								
		OBS	0173	0468	34690	2749			14721								
		OBS	0196	0447	34714	2753			14717								
		STD	0200	0453	3474	2755	0005719	0200	14720								
		OBS	0200	0453	34742	2755			14720								
		STD	0250	0500	3488	2760	0005271	0227	14750								
		OBS	0250	0500	34880	2760			14750								
		OBS	0293	0511	34911	2761			14762								
		STD	0300	0500	3491	2763	0005105	0253	14758								
		OBS	0300	0500	34910	2763			14758								
		OBS	0346	0463	34900	2766			14751								
		STD	0400	0469	3493	2768	0004701	0302	14762								
		OBS	0400	0469	34932	2768			14762								
		STD	0500	0438	3492	2770	0004533	0348	14766								
		OBS	0500	0438	34920	2770			14766								
		STD	0600	0427	3493	2772	0004451	0393	14778								
		OBS	0600	0427	34928	2772			14778								
		STD	0700	0415	3493	2774	0004380	0437	14790								
		OBS	0700	0415	34932	2774			14790								
		STD	0800	0389	3491	2775	0004355	0481	14795								
		OBS	0800	0389	34908	2775			14795								
		STD	0900	0384	3491	2775	0004399	0525	14809								
		OBS	0900	0384	34906	2775			14809								
		STD	1000	0381	3490	2775	0004472	0569	14825								
		OBS	1000	0381	34903	2775			14825								
		STD	1100	0380	3491	2776	0004504	0614	14841								
		OBS	1100	0380	34909	2776			14841								
		STD	1200	0380	3491	2776	0004573	0659	14858								
		OBS	1200	0380	34911	2776			14858								
		STD	1300	0375	3492	2777	0004538	0705	14873								
		OBS	1300	0375	34920	2777			14873								
		STD	1400	0378	3492	2777	0004659	0751	14891								
		OBS	1400	0378	34920	2777			14891								
		STD	1500	0369	3492	2778	0004588	0797	14904								
		OBS	1500	0369	34925	2778			14904								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
318039		EV	44240N	048080W		149	48	06	20	146	1968	003	10275	1970	1	21	2	2		X1	0	3	0236

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	20	S08	230	128	106	7	37	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ ΔD DYN. M. x 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	CODE
		STD	0000	0840	3295	2563	0023702	0000	14818								
146		OBS	0000	0840	32950	2563			14818								
		STD	0010	0570	3315	2615	0018739	0021	14716								
		OBS	0010	0570	33150	2615			14716								
		STD	0020	0510	3310	2618	0018457	0039	14692								
003		OBS	0020	0510	33100	2618			14692								
		OBS	0025	0410	33010	2622			14650								
		STD	0030	0332	3294	2624	0017929	0058	14617								
		OBS	0030	0332	32940	2624			14617								
		OBS	0035	0458	33340	2643			14676								
		STD	0050	0249	3344	2671	0013471	0089	14591								
		OBS	0050	0249	33440	2671			14591								
		OBS	0058	0505	34000	2690			14708								
		OBS	0061	0349	33900	2698			14642								
		STD	0075	0485	3421	2709	0009913	0118	14706								
		OBS	0075	0485	34210	2709			14706								
		OBS	0084	0621	34540	2718			14767								
		OBS	0090	0584	34460	2717			14752								
		OBS	0092	0638	34610	2722			14776								
		STD	0100	0605	3458	2724	0008579	0141	14764								
		OBS	0100	0605	34580	2724			14764								
		OBS	0118	0527	34500	2727			14734								
		STD	0125	0589	3465	2731	0007888	0162	14762								
		OBS	0125	0589	34650	2731			14762								
		STD	0150	0588	3465	2731	0007912	0182	14766								
		OBS	0150	0588	34650	2731			14766								
		OBS	0190	0389	34470	2740			14688								
		STD	0200	0430	3462	2747	0006383	0217	14709								
		OBS	0200	0430	34620	2747			14709								
		OBS	0215	0435	34650	2749			14714								
		STD	0250	0529	3489	2758	0005539	0247	14762								
		OBS	0250	0529	34890	2758			14762								
		OBS	0275	0538	34910	2758			14770								
		STD	0300	0498	3486	2759	0005454	0275	14757								
		OBS	0300	0498	34860	2759			14757								
		OBS	0321	0518	34930	2762			14769								
		OBS	0342	0499	34920	2763			14765								
		STD	0400	0498	3497	2768	0004720	0326	14775								
		OBS	0400	0498	34975	2768			14775								
		STD	0500	0448	3494	2771	0004500	0372	14770								
		OBS	0500	0448	34940	2771			14770								
		STD	0600	0442	3495	2772	0004464	0416	14784								
		OBS	0600	0442	34950	2772			14784								
		STD	0700	0419	3495	2775	0004297	0460	14791								
		OBS	0700	0419	34950	2775			14791								
		STD	0800	0409	3495	2776	0004278	0503	14804								
		OBS	0800	0409	34950	2776			14804								
		STD	0900	0400	3496	2778	0004195	0546	14817								
		OBS	0900	0400	34959	2778			14817								
		STD	1000	0392	3496	2778	0004189	0587	14830								
		OBS	1000	0392	34960	2778			14830								
		STD	1100	0392	3496	2779	0004270	0630	14847								
		OBS	1100	0392	34961	2779			14847								
		STD	1200	0378	3494	2779	0004302	0673	14858								
		OBS	1200	0378	34945	2779			14858								
		STD	1300	0378	3496	2780	0004274	0715	14875								
		OBS	1300	0378	34960	2780			14875								
		STD	1400	0375	3496	2780	0004323	0758	14890								
		OBS	1400	0375	34960	2780			14890								
		STD	1500	0373	3496	2780	0004383	0802	14906								
		OBS	1500	0373	34960	2780			14906								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44200N	047310W		149	47	06	20	177	1968	003	10276	3749	1	22	0	4		X1	0	3		0237

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	22	S06	220	178	144	8	38	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCUD
		STD	0000	0970	3325	2566	0023421	0000	14870								
177		OBS	0000	0970	33250	2566			14870								
		STD	0010	0815	3326	2591	0021018	0022	14814								
		OBS	0010	0815	33265	2591			14814								
		STD	0020	0780	3328	2598	0020398	0042	14802								
003		OBS	0020	0780	33285	2598			14802								
		OBS	0025	0767	33290	2600			14798								
		STD	0030	0752	3352	2620	0018267	0062	14796								
		OBS	0030	0752	3227P	2522P											
		OBS	0040	0693	33980	2665			14781								
		STD	0050	0725	3443	2696	0011170	0091	14801								
		OBS	0050	0725	34430	2696			14801								
		OBS	0052	0550	34200	2700			14729								
		OBS	0068	0740	34540	2702			14811								
		STD	0075	0664	3441	2702	0010550	0118	14781								
		OBS	0075	0664	34410	2702			14781								
		STD	0100	0830	3484	2712	0009694	0144	14855								
		OBS	0100	0830	34840	2712			14855								
		OBS	0120	0668	34650	2721			14793								
		STD	0125	0683	3469	2722	0008789	0167	14800								
		OBS	0125	0683	34690	2722			14800								
		OBS	0130	0720	34760	2722			14817								
		OBS	0145	0663	34760	2730			14797								
		STD	0150	0684	3482	2732	0007882	0188	14806								
		OBS	0150	0684	34820	2732			14806								
		OBS	0160	0711	34850	2731			14819								
		STD	0200	0637	3486	2741	0007066	0225	14797								
		OBS	0200	0637	34856	2741			14797								
		OBS	0210	0664	34910	2742			14810								
		STD	0250	0480	3460	2740	0007138	0261	14738								
		OBS	0250	0480	34600	2740			14738								
		OBS	0273	0392	34700	2758			14706								
		STD	0300	0460	3481	2759	0005409	0292	14740								
		OBS	0300	0460	34808	2759			14740								
		OBS	0345	0523	34890	2758			14775								
		STD	0400	0487	3489	2762	0005238	0345	14769								
		OBS	0400	0487	34888	2762			14769								
		STD	0500	0480	3495	2768	0004807	0395	14784								
		OBS	0500	0480	34950	2768			14784								
		OBS	0563	0499	34970	2767			14802								
		STD	0600	0470	3497	2771	0004647	0443	14796								
		OBS	0600	0470	34970	2771			14796								
		STD	0700	0452	3496	2772	0004611	0489	14805								
		OBS	0700	0452	34960	2772			14805								
		OBS	0735	0425	34915	2771			14799								
		OBS	0781	0421	34950	2775			14806								
		STD	0800	0440	3498	2775	0004427	0534	14817								
		OBS	0800	0440	34980	2775			14817								
		STD	0900	0422	3496	2775	0004437	0578	14826								
		OBS	0900	0422	34962	2775			14826								
		STD	1000	0410	3493	2774	0004622	0624	14837								
		OBS	1000	0410	34930	2774			14837								
		STD	1100	0403	3494	2776	0004574	0670	14851								
		OBS	1100	0403	34938	2776			14851								
		STD	1200	0399	3494	2776	0004610	0716	14866								
		OBS	1200	0399	34939	2776			14866								
		STD	1300	0394	3494	2777	0004623	0762	14881								
		OBS	1300	0394	34940	2777			14881								
		STD	1400	0389	3494	2777	0004652	0808	14896								
		OBS	1400	0389	34940	2777			14896								
		STD	1500	0382	3494	2778	0004644	0855	14910								
		OBS	1500	0382	34940	2778			14910								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318	039	EV	44168N	047208W		149	47	06	20	196	1968	003	10277	4023	1	22	0	X		X0	0	3		0238

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	00	S00	220	167	140	7	50	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	$\Sigma\Delta$ O DYN. M. $x 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg - at/l	TOTAL-P µg - at/l	NO_2-N µg - at/l	NO_3-N µg - at/l	SiO_4-Si µg - at/l	pH	SOC
		STO	0000	0849	3302	2567	0023267	0000	14822								
196		OBS	0000	0849	33025	2567			14822								
		STD	0010	0630	3293	2590	0021113	0022	14737								
		OBS	0010	0630	32927	2590			14737								
		STD	0020	0572	3300	2603	0019900	0042	14716								
003		OBS	0020	0572	33000	2603			14716								
		OBS	0025	0544	33150	2618			14708								
		STD	0030	0624	3330	2620	0018276	0061	14743								
		OBS	0030	0624	33300	2620			14743								
		OBS	0038	0348	33210	2644			14629								
		STD	0050	0635	3424	2693	0011422	0091	14763								
		OBS	0050	0635	34239	2693			14763								
		OBS	0061	0741	34450	2695			14809								
		OBS	0067	0722	34420	2695			14802								
		STD	0075	0758	3459	2703	0010475	0118	14820								
		OBS	0075	0758	34590	2703			14820								
		OBS	0092	0673	34510	2709			14789								
		STD	0100	0703	3459	2711	0009766	0144	14803								
		OBS	0100	0703	34590	2711			14803								
		OBS	0105	0641	34520	2714			14778								
		OBS	0120	0722	34680	2716			14815								
		STD	0125	0710	3464	2714	0009500	0168	14810								
		OBS	0125	0710	34643	2714			14810								
		OBS	0136	0655	34620	2720			14790								
		STD	0150	0740	3480	2723	0008793	0191	14828								
		OBS	0150	0740	34800	2723			14828								
		OBS	0160	0751	34896	2728			14835								
		OBS	0185	0526	34590	2734			14746								
		STD	0200	0538	3469	2741	0007065	0230	14754								
		OBS	0200	0538	34692	2741			14754								
		OBS	0228	0585	34800	2743			14780								
		OBS	0239	0580	34840	2747			14780								
		OBS	0241	0602	34873	2747			14790								
		OBS	0247	0585	34833	2746			14783								
		STD	0250	0604	3488	2747	0006536	0264	14792								
		OBS	0250	0604	34880	2747			14792								
		OBS	0260	0610	34900	2748			14796								
		OBS	0279	0550	34812	2749			14774								
		OBS	0290	0565	34890	2753			14783								
		STD	0300	0524	3482	2753	0006029	0296	14767								
		OBS	0300	0524	34825	2753			14767								
		OBS	0315	0467	34750	2754			14745								
		OBS	0340	0496	34873	2760			14763								
		OBS	0346	0535	35001	2766			14781								
		OBS	0370	0554	35030	2766			14794								
		STD	0400	0532	3498	2764	0005083	0351	14789								
		OBS	0400	0532	34981	2764			14789								
		OBS	0443	0532	35010	2767			14796								
		STD	0500	0496	3497	2768	0004853	0401	14790								
		OBS	0500	0496	34970	2768			14790								
		OBS	0525	0481	34950	2768			14788								
		OBS	0550	0492	34990	2770			14797								
		STD	0600	0486	3498	2770	0004768	0449	14803								
		OBS	0600	0486	34980	2770			14803								
		STD	0700	0470	3499	2773	0004588	0496	14813								
		OBS	0700	0470	34993	2773			14813								
		OBS	0743	0473	35013	2774			14822								
		OBS	0761	0451	34995	2775			14815								
		STD	0800	0451	3499	2774	0004519	0541	14822								
		OBS	0800	0451	34986	2774			14822								
		STD	0900	0435	3497	2775	0004519	0587	14832								
		OBS	0900	0435	34973	2775			14832								
		STD	1000	0422	3497	2776	0004482	0632	14843								
		OBS	1000	0422	34969	2776			14843								
		STD	1100	0416	3496	2776	0004537	0677	14857								
		OBS	1100	0416	34965	2776			14857								
		STD	1200	0412	3497	2777	0004541	0722	14872								
		OBS	1200	0412	34971	2777			14872								
		STD	1300	0405	3497	2778	0004543	0767	14886								
		OBS	1300	0405	34971	2778			14886								
		STD	1400	0399	3497	2779	0004553	0813	14900								
		OBS	1400	0399	34971	2779			14900								
		STD	1500	0392	3497	2779	0004565	0859	14914								
		OBS	1500	0392	34969	2779			14914								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MD	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	44030N	048060W		149	48	06	21	002	1968	003	10278	3346	1	14	0	2		X4	0	3		0239

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	13	S02	220	117	117	1	35	

MESSENGR TIME of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCO
		STD	0000	0851	3308	2571	0022904	0000	14824								
002		OBS	0000	0851	33078	2571			14824								
		STD	0010	0540	3308	2614	0018892	0020	14703								
		OBS	0010	0540	33085	2614			14703								
003		OBS	0017	0517	33099	2617			14695								
		STD	0020	0533	3314	2619	0018404	0039	14702								
		OBS	0020	0533	33140	2619			14702								
		OBS	0025	0538	33160	2620			14705								
		STD	0030	0500	3318	2626	0017760	0057	14691								
		OBS	0030	0500	33180	2626			14691								
		OBS	0033	0495	33180	2626			14689								
		OBS	0040	0519	33440	2644			14704								
		STD	0050	0344	3335	2655	0014975	0090	14631								
		OBS	0050	0344	33348	2655			14631								
		OBS	0070	0099	33400	2678			14527								
		STD	0075	0150	3375	2703	0010409	0122	14556								
		OBS	0075	0150	33750	2703			14556								
		OBS	0090	0192	33960	2717			14580								
		STD	0100	0173	3394	2717	0009130	0146	14573								
		OBS	0100	0173	33940	2717			14573								
		OBS	0115	0327	34348	2736			14648								
		STD	0125	0328	3435	2736	0007322	0167	14650								
		OBS	0125	0328	34351	2736			14650								
		OBS	0132	0329	34359	2737			14652								
		STD	0150	0364	3453	2747	0006335	0184	14672								
		OBS	0150	0364	34530	2747			14672								
		STD	0200	0490	3482	2757	0005548	0213	14737								
		OBS	0200	0490	34820	2757			14737								
		OBS	0248	0488	34849	2759			14744								
		STD	0250	0479	3482	2758	0005483	0241	14740								
		OBS	0250	0479	34820	2758			14740								
		OBS	0266	0461	34835	2761			14736								
		OBS	0280	0507	34942	2764			14758								
		STD	0300	0510	3495	2764	0004960	0267	14763								
		OBS	0300	0510	34946	2764			14763								
		STD	0400	0484	3496	2768	0004661	0315	14769								
		OBS	0400	0484	34960	2768			14769								
		STD	0500	0475	3497	2770	0004586	0361	14782								
		OBS	0500	0475	34972	2770			14782								
		STD	0600	0455	3496	2772	0004545	0407	14790								
		OBS	0600	0455	34960	2772			14790								
		STD	0700	0438	3496	2774	0004445	0452	14799								
		OBS	0700	0438	34960	2774			14799								
		STD	0800	0424	3495	2774	0004459	0497	14810								
		OBS	0800	0424	34950	2774			14810								
		STD	0900	0418	3496	2776	0004402	0541	14824								
		OBS	0900	0418	34960	2776			14824								
		STD	1000	0405	3494	2776	0004477	0585	14835								
		OBS	1000	0405	34942	2776			14835								
		STD	1100	0398	3494	2777	0004463	0630	14849								
		OBS	1100	0398	34945	2777			14849								
		STD	1200	0391	3494	2777	0004499	0675	14863								
		OBS	1200	0391	34940	2777			14863								
		STD	1300	0383	3494	2778	0004492	0720	14876								
		OBS	1300	0383	34939	2778			14876								
		STD	1400	0380	3494	2778	0004534	0765	14892								
		OBS	1400	0380	34940	2778			14892								
		STD	1500	0373	3494	2779	0004533	0810	14906								
		OBS	1500	0373	34940	2779			14906								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	43440N	048500W		149	38	06	21	025	1968	003	10279	1829	1	14	1	2		X4	0	3		0240

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	15	S07	220	117	117	1	41	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	S CODE
		STD	0000	0418	3267	2594	0020739	0000	14645								
025		OBS	0000	0418	32670	2594			14645								
		STD	0010	0215	3270	2614	0018811	0019	14559								
		OBS	0010	0215	32700	2614			14559								
		STD	0020	0192	3287	2630	0017355	0037	14553								
002		OBS	0020	0192	32870	2630			14553								
		OBS	0025	0145	32900	2635			14534								
		STD	0030	0130	3296	2641	0016266	0054	14528								
		OBS	0030	0130	32960	2641			14528								
		OBS	0038	0051	33010	2650			14495								
		OBS	0042	0091	33270	2668			14517								
		STD	0050	0088	3334	2674	0013124	0084	14518								
		OBS	0050	0088	33340	2674			14518								
		OBS	0051	0058	33410	2682			14506								
		OBS	0065	0099	33638	2697			14530								
		STD	0075	0046	3360	2697	0010911	0114	14507								
		OBS	0075	0046	33600	2697			14507								
		STD	0100	0112	3385	2714	0009402	0139	14544								
		OBS	0100	0112	33850	2714			14544								
		OBS	0111	0095	33882	2717			14539								
		STD	0125	0138	3405	2728	0008025	0161	14563								
		OBS	0125	0138	34055	2728			14563								
		OBS	0131	0165	34080	2728			14576								
		STD	0150	0174	3417	2735	0007415	0180	14584								
		OBS	0150	0174	34170	2735			14584								
		OBS	0153	0182	34189	2736			14589								
		OBS	0177	0178	34238	2740			14592								
		STD	0200	0208	3436	2748	0006225	0214	14610								
		OBS	0200	0208	34365	2748			14610								
		STD	0250	0278	3453	2755	0005582	0244	14651								
		OBS	0250	0278	34533	2755			14651								
		OBS	0272	0349	34680	2761			14687								
		STD	0300	0380	3473	2761	0005125	0271	14706								
		OBS	0300	0380	34730	2761			14706								
		OBS	0352	0420	34825	2765			14733								
		OBS	0360	0440	34878	2767			14743								
		STD	0400	0451	3490	2767	0004746	0320	14754								
		OBS	0400	0451	34898	2767			14754								
		OBS	0437	0466	34930	2768			14767								
		STD	0500	0448	3492	2769	0004635	0367	14770								
		OBS	0500	0448	34922	2769			14770								
		STD	0600	0433	3492	2771	0004576	0413	14780								
		OBS	0600	0433	34921	2771			14780								
		STD	0700	0410	3491	2773	0004451	0458	14787								
		OBS	0700	0410	34915	2773			14787								
		OBS	0715	0408	34930	2774			14789								
		OBS	0762	0411	34918	2773			14798								
		OBS	0767	0400	34915	2774			14794								
		STD	0800	0399	3492	2775	0004384	0502	14799								
		OBS	0800	0399	34920	2775			14799								
		STD	0900	0399	3492	2774	0004485	0546	14816								
		OBS	0900	0399	34918	2774			14816								
		OBS	0961	0386	34920	2776			14821								
		STD	1000	0388	3492	2776	0004436	0591	14828								
		OBS	1000	0388	34920	2776			14828								
		STD	1100	0386	3492	2776	0004493	0636	14844								
		OBS	1100	0386	34921	2776			14844								
		STD	1200	0377	3491	2776	0004547	0681	14857								
		OBS	1200	0377	34910	2776			14857								
		STD	1300	0377	3492	2777	0004562	0726	14874								
		OBS	1300	0377	34920	2777			14874								
		STD	1400	0371	3492	2777	0004565	0772	14888								
		OBS	1400	0371	34920	2777			14888								
		STD	1500	0371	3493	2778	0004578	0818	14905								
		OBS	1500	0371	34930	2778			14905								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	43100N	050200W		150	30	06	21	099	1968	003	10280	0086	1	20	2	2		X4	0	3		0241

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	19	S22	159	139	139		09	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SIO4-Si µg-at/l	pH	SUD
		STD	0000	0922	3270	2531	0026758	0000	14846								
099		OBS	0000	0922	32700	2531			14846								
		STD	0010	0724	3298	2582	0021885	0024	14775								
		OBS	0010	0724	32982	2582			14775								
		STD	0020	0643	3301	2595	0020664	0045	14745								
002		OBS	0020	0643	33010	2595			14745								
		OBS	0025	0613	33033	2601			14734								
		STD	0030	0561	3311	2613	0018959	0065	14715								
		OBS	0030	0561	33110	2613			14715								
		OBS	0035	0579	33550	2646			14729								
		OBS	0038	0563	33654	2656			14724								
		STD	0050	0563	3366	2656	0014911	0099	14726								
		OBS	0050	0563	33657	2656			14726								
		OBS	0065	0563	33658	2656			14729								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	43000N	050200W		150	30	06	21	111	1968	003	10281	0090	1	20	1	2		X4	0	3		0242

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	19	S20	180	140	110	1	05	

MESSENGR TIME NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SIO4-Si µg-at/l	pH	SUD
		STD	0000	0911	3280	2540	0025870	0000	14843								
111		OBS	0000	0911	32798	2540			14843								
		STD	0010	0385	3258	2590	0021107	0023	14631								
		OBS	0010	0385	32580	2590			14631								
002		OBS	0013	0366	32720	2603			14626								
		STD	0020	0414	3301	2621	0018181	0043	14651								
		STD	0030	0470	3334	2641	0016274	0060	14680								
		STD	0050	0538	3372	2664	0014149	0090	14717								
		OBS	0050	0538	33720	2664			14717								
		OBS	0070	0548	33738	2664			14724								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4243 N	05020 W		150	20	06	21	132	1968	003	10282	0457	1	19	2	2		X4	7	8		0243

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		20	S25	169	133	128	0	09	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SIO4-Si µg-at/l	pH	SUD
		STD	0000		3307												
133		OBS	0000	11670	33071	25170											
		STD	0010		3295												
		STD	0020		3283												
133		OBS	0023	0640	32798	2579			14741								
		STD	0030	0678	3303	2592	0020996		14761								
133		OBS	0045	0690	33387	2618			14773								
		STD	0050	0646	3343	2628	0017607		14757								
133		OBS	0067	0538	33609	2655			14718								
		STD	0075	0538	3380	2670	0013608		14722								
		STD	0100	0536	3420	2702	0010629		14731								
133		OBS	0108	0536	34264	2707			14733								
		STD	0125	0422	3422	2717	0009217		14688								
		STD	0150	0370	3416	2717	0009203		14669								
133		OBS	0150	0370	34156	2717			14669								
133		OBS	0193	0606	34645	2729			14780								
		STD	0200	0608	3467	2731	0008061		14782								
133		OBS	T0238	0613	34794	2739			14792								
		STD	0250	0611	3481	2741	0007179		14794								
		STD	0300	0601	3486	2746	0006748		14799								
133		OBS	T0336	0594	34891	2750			14802								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	42340N	050200W		150	20	06	21	146	1968	003	10283	1847	1	19	2	2		X0	0	3		0244

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S20	170	130	130	0	33	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SOC
		STD	0000	1236	3321	2515	0028237	0000	14965								
146		OBS	0000	1236	33208	2515			14965								
		STD	0010	0942	3306	2555	0024419	0026	14859								
		OBS	0010	0942	33059	2555			14859								
		STD	0020	0886	3322	2577	0022378	0049	14842								
003		OBS	0020	0886	33222	2577			14842								
		OBS	0025	0844	33225	2584			14827								
		STD	0030	0800	3320	2588	0021321	0071	14811								
		OBS	0030	0800	33200	2588			14811								
		STD	0050	0640	3349	2633	0017091	0110	14755								
		OBS	0050	0640	33488	2633			14755								
		OBS	0068	0413	33894	2692			14670								
		STD	0075	0517	3430	2712	0009594	0143	14720								
		OBS	0075	0517	34300	2712			14720								
		OBS	0094	0382	34138	2714			14665								
		STD	0100	0405	3424	2720	0008874	0166	14677								
		OBS	0100	0405	34240	2720			14677								
		OBS	0101	0415	34239	2719			14681								
		OBS	0110	0377	34230	2722			14667								
		STD	0125	0404	3432	2726	0008292	0187	14682								
		OBS	0125	0404	34320	2726			14682								
		STD	0150	0520	3462	2737	0007357	0207	14738								
		OBS	0150	0520	34616	2737			14738								
		OBS	0170	0590	34744	2738			14771								
		STD	0200	0594	3477	2740	0007163	0243	14778								
		OBS	0200	0594	34770	2740			14778								
		OBS	0215	0606	34852	2745			14787								
		STD	0250	0546	3479	2748	0006449	0277	14767								
		OBS	0250	0546	34795	2748			14767								
		STD	0300	0512	3481	2754	0005958	0308	14762								
		OBS	0300	0512	34815	2754			14762								
		OBS	0365	0553	34960	2760			14791								
		STD	0400	0495	3490	2762	0005246	0364	14773								
		OBS	0400	0495	34900	2762			14773								
		STD	0500	0485	3494	2766	0004965	0415	14785								
		OBS	0500	0485	34936	2766			14785								
		STD	0600	0490	3498	2769	0004836	0464	14805								
		OBS	0600	0490	34978	2769			14805								
		STD	0700	0481	3500	2772	0004677	0512	14818								
		OBS	0700	0481	34999	2772			14818								
		STD	0800	0458	3498	2773	0004648	0559	14825								
		OBS	0800	0458	34980	2773			14825								
		STD	0900	0438	3497	2774	0004596	0605	14833								
		OBS	0900	0438	34967	2774			14833								
		STD	1000	0434	3497	2775	0004590	0651	14848								
		OBS	1000	0434	34975	2775			14848								
		STD	1100	0414	3496	2776	0004549	0696	14856								
		OBS	1100	0414	34960	2776			14856								
		STD	1200	0412	3496	2777	0004585	0742	14872								
		OBS	1200	0412	34965	2777			14872								
		STD	1300	0400	3495	2777	0004598	0788	14884								
		OBS	1300	0400	34955	2777			14884								
		STD	1400	0388	3494	2777	0004640	0834	14895								
		OBS	1400	0388	34940	2777			14895								
		OBS	1480	0384	34940	2778			14907								
		STD	1500	0384	3494	2778	0004677	0881	14910								
		OBS	1500	0384	34940	2778			14910								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR,1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		Ev	4211 N	05020 W		150	20	06	21	172	1968	003	10284	3146	1	20	2	3		X6	0	3		0245

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	19	S19	166	172	166	3	35	

MESSENGR TIME MR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	ΣΔD DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SPC
		STD	0000	1078	3295	2524	0027348	0000	14906								
172		OBS	0000	1078	32955	2524			14906								
		STD	0010	0884	3320	2576	0022496	0024	14839								
		OBS	0010	0884	33200	2576			14839								
		STD	0020	0781	3328	2597	0020444	0046	14803								
002		OBS	0020	0781	33280	2597			14803								
		STD	0030	0721	3329	2607	0019568	0066	14781								
		STD	0050	0592	3346	2637	0016723	0102	14735								
		OBS	0050	0592	33460	2637			14735								
		OBS	0070	0453	33826	2682			14686								
		STD	0075	0492	3386	2680	0012624	0139	14704								
		OBS	0075	0492	33859	2680			14704								
		OBS	0079	0384	33900	2695			14660								
		STD	0100	0543	3429	2708	0009999	0167	14735								
		OBS	0100	0543	34290	2708			14735								
		OBS	0104	0529	34300	2711			14730								
		OBS	0118	0556	34400	2716			14744								
		STD	0125	0451	3432	2721	0008775	0191	14701								
		OBS	0125	0451	34320	2721			14701								
		OBS	0144	0683	34726	2725			14804								
		STD	0150	0668	3471	2726	0008454	0212	14799								
		OBS	0150	0668	34714	2726			14799								
		OBS	0175	0587	34650	2731			14770								
		OBS	0193	0634	34808	2738			14794								
		STD	0200	0630	3480	2738	0007369	0252	14793								
		OBS	0200	0630	34803	2738			14793								
		OBS	0212	0626	34820	2740			14794								
		OBS	0228	0526	34694	2742			14754								
		STD	0250	0580	3481	2745	0006756	0287	14781								
		OBS	0250	0580	34810	2745			14781								
		STD	0300	0523	3479	2750	0006262	0320	14766								
		OBS	0300	0523	34792	2750			14766								
		OBS	0314	0522	34818	2753			14768								
		OBS	0323	0509	34872	2758			14765								
		OBS	0335	0527	34882	2757			14775								
		OBS	0342	0526	34873	2757			14775								
		STD	0400	0507	3492	2762	0005239	0377	14778								
		OBS	0400	0507	34919	2762			14778								
		OBS	0475	0500	34944	2765			14788								
		STD	0500	0490	3494	2766	0004998	0428	14788								
		OBS	0500	0490	34940	2766			14788								
		STD	0600	0472	3495	2769	0004846	0478	14797								
		OBS	0600	0472	34947	2769			14797								
		OBS	0652	0464	34962	2771			14802								
		OBS	0682	0464	34962	2771			14807								
		OBS	0697	0457	34960	2771			14807								
		STD	0700	0457	3496	2771	0004673	0525	14807								
		OBS	0700	0457	34960	2771			14807								
		STD	0800	0458	3499	2773	0004604	0572	14825								
		OBS	0800	0458	34986	2773			14825								
		STD	0900	0434	3497	2775	0004508	0617	14831								
		OBS	0900	0434	34973	2775			14831								
		STD	1000	0426	3497	2776	0004536	0662	14845								
		OBS	1000	0426	34969	2776			14845								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MD	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	41510N	050200W		150	10	06	21	199	1968	003	10285	3800	1	21	5	2		X2	0	3		0246

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S28	170	194	183	4	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ ΔD DYN. M. x 10³	SOUND VELOCITY	D_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	1350	3328	2498	0029844	0000	15004								
199		OBS	0000	1350	33280	2498			15004								
		STD	0010	1300	3334	2513	0028480	0029	14990								
		OBS	0010	1300	33340	2513			14990								
		STD	0020	1365	3362	2521	0027691	0057	15016								
003		OBS	0020	1365	33620	2521			15016								
		OBS	0025	1370	33830	2537			15021								
		STD	0030	1369	3400	2550	0025006	0083	15024								
		OBS	0030	1369	34000	2550			15024								
		OBS	0040	1339	34055	2560			15016								
		STD	0050	1272	3401	2570	0023130	0131	14995								
		OBS	0050	1272	34010	2570			14995								
		STD	0075	1286	3550	2683	0012523	0176	15023								
		OBS	0075	1286	35500	2683			15023								
		STD	0100	1227	3539	2686	0012282	0207	15005								
		OBS	0100	1227	35390	2686			15005								
		STD	0125	1156	3527	2690	0011925	0237	14983								
		OBS	0125	1156	35270	2690			14983								
		STD	0150	1152	3527	2691	0011913	0267	14986								
		OBS	0150	1152	35270	2691			14986								
		OBS	0162	1172	35350	2693			14996								
		STD	0200	1052	3526	2708	0010367	0323	14959								
		OBS	0200	1052	35258	2708			14959								
		STD	0250	0905	3515	2725	0008823	0371	14912								
		OBS	0250	0905	35152	2725			14912								
		STD	0300	0748	3490	2730	0008384	0414	14857								
		OBS	0300	0748	34904	2730			14857								
		OBS	0350	0728	34990	2739			14859								
		STD	0400	0606	3490	2749	0006604	0489	14818								
		OBS	0400	0606	34903	2749			14818								
		OBS	0430	0543	34830	2751			14796								
		OBS	0460	0552	34910	2756			14806								
		STD	0500	0528	3488	2757	0005875	0551	14802								
		OBS	0500	0528	34885	2757			14802								
		STD	0600	0501	3494	2765	0005253	0607	14809								
		OBS	0600	0501	34940	2765			14809								
		STD	0700	0474	3495	2769	0004969	0658	14814								
		OBS	0700	0474	34948	2769			14814								
		STD	0800	0478	3499	2771	0004819	0707	14833								
		OBS	0800	0478	34990	2771			14833								
		STD	0900	0452	3498	2774	0004644	0754	14839								
		OBS	0900	0452	34985	2774			14839								
		STD	1000	0424	3496	2775	0004593	0800	14844								
		OBS	1000	0424	34958	2775			14844								
		STD	1100	0412	3496	2776	0004553	0846	14855								
		OBS	1100	0412	34956	2776			14855								
		STD	1200	0400	3494	2776	0004613	0892	14867								
		OBS	1200	0400	34940	2776			14867								
		STD	1300	0402	3495	2777	0004622	0938	14884								
		OBS	1300	0402	34955	2777			14884								
		STD	1400	0392	3494	2777	0004653	0984	14897								
		OBS	1400	0392	34945	2777			14897								
		STD	1500	0388	3494	2778	0004691	1031	14912								
		OBS	1500	0388	34945	2778			14912								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318030		EV	4136N	050200W		150	10	06	21	218	1968	003	10286	3966	1	22	5	2		X6	0	3		0247

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S28	170	206	194	6	42	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ Φ DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SEC
		STD	0000	1594	3453	2542	0025652	0000	15098								
218		OBS	0000	1594	34535	2542			15098								
		OBS	0001	1340	35113	2642			15024								
		STD	0010	1371	3535	2654	0015080	0020	15038								
003		OBS	0010	1371	35353	2654			15038								
		STD	0020	1475	3574	2661	0014415	0035	15078								
		OBS	0020	1475	35736	2661			15078								
		OBS	0025	1495	35850	2666			15087								
		STD	0030	1501	3587	2666	0014022	0049	15090								
		OBS	0030	1501	35869	2666			15090								
		OBS	0036	1515	35899	2665			15096								
		STD	0050	1489	3582	2665	0014190	0077	15089								
		OBS	0050	1489	35820	2665			15089								
		STD	0075	1459	3581	2671	0013675	0112	15083								
		OBS	0075	1459	35815	2671			15083								
		OBS	0080	1447	35860	2677			15081								
		OBS	0090	1462	35889	2676			15088								
		STD	0100	1459	3587	2675	0013325	0146	15088								
		OBS	0100	1459	35873	2675			15088								
		STD	0125	1365	3570	2682	0012766	0178	15059								
		OBS	0125	1365	35697	2682			15059								
		STD	0150	1270	3547	2684	0012622	0210	15029								
		OBS	0150	1270	35473	2684			15029								
		OBS	0179	1220	35403	2688			15016								
		STD	0200	1218	3544	2691	0012016	0272	15019								
		OBS	0200	1218	35439	2691			15019								
		OBS	0218	1218	35443	2692			15022								
		STD	0250	1164	3536	2696	0011723	0331	15008								
		OBS	0250	1164	35360	2696			15008								
		STD	0300	1060	3529	2709	0010492	0387	14978								
		OBS	0300	1060	35291	2709			14978								
		STD	0400	0783	3501	2733	0008286	0480	14889								
		OBS	0400	0783	35010	2733			14889								
		OBS	0412	0794	35055	2735			14895								
		OBS	0460	0691	35000	2745			14863								
		STD	0500	0659	3501	2750	0006687	0555	14857								
		OBS	0500	0659	35008	2750			14857								
		OBS	0568	0551	34960	2760			14824								
		OBS	0579	0572	35000	2761			14835								
		STD	0600	0569	3497	2759	0005893	0618	14837								
		OBS	0600	0569	34970	2759			14837								
		OBS	0603	0551	34965	2761			14830								
		OBS	0673	0527	34971	2764			14832								
		STD	0700	0485	3493	2766	0005236	0674	14818								
		OBS	0700	0485	34930	2766			14818								
		OBS	0720	0470	34918	2767			14815								
		STD	0800	0475	3498	2771	0004858	0724	14832								
		OBS	0800	0475	34980	2771			14832								
		OBS	0830	0494	35009	2771			14845								
		STD	0900	0475	3500	2772	0004835	0773	14849								
		OBS	0900	0475	34998	2772			14849								
		OBS	0975	0459	34988	2773			14854								
		STD	1000	0439	3496	2774	0004753	0821	14850								
		OBS	1000	0439	34962	2774			14850								
		STD	1100	0430	3497	2775	0004689	0868	14863								
		OBS	1100	0430	34968	2775			14863								
		OBS	1122	0416	34945	2775			14860								
		STD	1200	0411	3495	2776	0004689	0915	14871								
		OBS	1200	0411	34949	2776			14871								
		OBS	1260	0409	34953	2776			14881								
		STD	1300	0396	3493	2775	0004744	0962	14882								
		OBS	1300	0396	34928	2775			14882								
		STD	1400	0396	3494	2776	0004737	1009	14899								
		OBS	1400	0396	34941	2776			14899								
		STD	1500	0392	3495	2778	0004714	1057	14914								
		OBS	1500	0392	34949	2778			14914								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
316039		EV	42000N	048000W		149	28	06	22	076	1968	003	10287	3986	1	18	4	2		X6	0	3		0248

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S15	200	144	133	6	44	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ ΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	1194	3322	2524	0027403	0000	14950								
076		OBS	0000	1194	33218	2524			14950								
		STD	0010	0710	3333	2611	0019104	0023	14774								
		OBS	0010	0710	33330	2611			14774								
		STD	0020	0610	3361	2646	0015774	0040	14740								
003		OBS	0020	0610	33610	2646			14740								
		OBS	0025	0606	33670	2652			14740								
		STD	0030	0580	3372	2659	0014609	0055	14731								
		OBS	0030	0580	33720	2659			14731								
		STD	0050	0359	3457	2703	0010422	0080	14646								
		OBS	0050	0359	33970	2703			14646								
		OBS	0064	0336	34153	2720			14641								
		STD	0075	0385	3419	2718	0009037	0105	14664								
		OBS	0075	0385	34190	2718			14664								
		OBS	0080	0394	34220	2719			14669								
		STD	0100	0364	3439	2736	0007348	0125	14662								
		OBS	0100	0364	34390	2736			14662								
		STD	0125	0476	3455	2737	0007322	0144	14715								
		OBS	0125	0476	34551	2737			14715								
		OBS	0135	0481	34575	2738			14719								
		OBS	0137	0516	34627	2738			14734								
		STD	0150	0518	3466	2741	0006969	0161	14738								
		OBS	0150	0518	34665	2741			14738								
		OBS	0163	0518	34728	2746			14741								
		OBS	0173	0534	34745	2745			14749								
		OBS	0196	0437	34631	2748			14711								
		STD	0200	0455	3475	2755	0005675	0193	14721								
		OBS	0200	0455	34750	2755			14721								
		OBS	0205	0505	34820	2755			14744								
		OBS	0245	0471	34785	2756			14736								
		STD	0250	0473	3480	2757	0005560	0221	14737								
		OBS	0250	0473	34800	2757			14737								
		OBS	0268	0483	34870	2761			14746								
		OBS	0278	0529	34910	2759			14767								
		STD	0300	0528	3494	2762	0005224	0248	14770								
		OBS	0300	0528	34939	2762			14770								
		OBS	0334	0525	34920	2760			14774								
		OBS	0340	0505	34920	2763			14767								
		OBS	0395	0502	34995	2769			14776								
		STD	0400	0513	3499	2768	0004761	0298	14781								
		OBS	0400	0513	34993	2768			14781								
		OBS	0420	0519	34992	2767			14787								
		OBS	0460	0501	34972	2767			14786								
		OBS	0468	0492	34984	2769			14784								
		OBS	0486	0497	34963	2767			14788								
		STD	0500	0477	3496	2769	0004669	0345	14783								
		OBS	0500	0477	34963	2769			14783								
		OBS	0530	0486	34983	2770			14791								
		OBS	0560	0465	34967	2771			14788								
		OBS	0581	0469	34970	2771			14793								
		STD	0600	0477	3496	2769	0004782	0392	14799								
		OBS	0600	0477	34963	2769			14799								
		OBS	0625	0443	34948	2772			14789								
		STD	0700	0439	3496	2773	0004482	0439	14800								
		OBS	0700	0439	34957	2773			14800								
		STD	0800	0431	3496	2775	0004427	0483	14813								
		OBS	0800	0431	34965	2775			14813								
		STD	0900	0420	3496	2775	0004433	0528	14825								
		OBS	0900	0420	34959	2775			14825								
		STD	1000	0411	3496	2776	0004420	0572	14838								
		OBS	1000	0411	34959	2776			14838								
		STD	1100	0397	3494	2776	0004487	0616	14849								
		OBS	1100	0397	34940	2776			14849								
		STD	1200	0389	3494	2778	0004440	0661	14862								
		OBS	1200	0389	34945	2778			14862								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	42000N	047000W		149	27	06	22	115	1968	003	10288	4599	1	20	3	3		X6	0	3		0249

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S17	210	144	133	7	39	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	NOOC
		STD	0000	1598	3425	2519	0027820	0000	15095								
115		OBS	0000	1598	34250	2519			15095								
		OBS	0004	1585	35857	2646			15112								
003		OBS	0006	1600	35920	2647			15117								
		STD	0010	1574	3599	2659	0014631	0021	15111								
		OBS	0010	1574	35990	2659			15111								
		STD	0020	1565	3598	2660	0014518	0035	15110								
		OBS	0020	1565	35984	2660			15110								
		OBS	0025	1561	35989	2661			15109								
		STD	0030	1548	3596	2662	0014368	0050	15106								
		OBS	0030	1548	35958	2662			15106								
		STD	0050	1462	3580	2669	0013745	0078	15080								
		OBS	0050	1462	35803	2669			15080								
		STD	0075	1370	3557	2671	0013619	0112	15051								
		OBS	0075	1370	35575	2671			15051								
		OBS	0085	1448	35810	2673			15081								
		STD	0100	1429	3579	2675	0013311	0146	15077								
		OBS	0100	1429	35790	2675			15077								
		STD	0125	1371	3571	2681	0012786	0178	15062								
		OBS	0125	1371	35711	2681			15062								
		STD	0150	1301	3556	2685	0012550	0210	15041								
		OBS	0150	1301	35564	2685			15041								
		STD	0200	1246	3547	2688	0012296	0272	15029								
		OBS	0200	1246	35472	2688			15029								
		OBS	0220	1231	35500	2694			15028								
		OBS	0240	1239	35520	2694			15034								
		STD	0250	1230	3548	2693	0012033	0333	15032								
		OBS	0250	1230	3449P	2615P											
		STD	0300	1113	3532	2702	0011215	0391	14998								
		OBS	0300	1113	35320	2702			14998								
		STD	0400	0846	3505	2726	0008959	0492	14913								
		OBS	0400	0846	35048	2726			14913								
		OBS	0438	0810	35047	2732			14906								
		OBS	0446	0808	35048	2732			14906								
		OBS	0457	0700	34820	2730			14863								
		OBS	0462	0716	34950	2738			14872								
		OBS	0481	0620	34840	2742			14836								
		OBS	0497	0648	34918	2745			14851								
		STD	0500	0633	3490	2745	0007123	0572	14845								
		OBS	0500	0633	34900	2745			14845								
		STD	0600	0550	3486	2753	0006430	0640	14828								
		OBS	0600	0550	34864	2753			14828								
		OBS	0625	0540	34937	2760			14829								
		OBS	0628	0528	34937	2761			14824								
		OBS	0651	0529	34939	2761			14829								
		OBS	0671	0512	34931	2763			14825								
		STD	0700	0518	3499	2766	0005237	0699	14833								
		OBS	0700	0518	34987	2766			14833								
		OBS	0725	0498	34953	2766			14828								
		OBS	0793	0501	34967	2767			14841								
		STD	0800	0491	3499	2770	0004959	0749	14838								
		OBS	0800	0491	34993	2770			14838								
		STD	0900	0459	3496	2771	0004907	0799	14841								
		OBS	0900	0459	34961	2771			14841								
		STD	1000	0444	3497	2773	0004783	0847	14852								
		OBS	1000	0444	34966	2773			14852								
		STD	1100	0430	3496	2775	0004733	0895	14863								
		OBS	1100	0430	34962	2775			14863								
		STD	1200	0418	3496	2776	0004691	0942	14874								
		OBS	1200	0418	34961	2776			14874								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	42300N	047200W		149	27	06	22	148	1968	003	10289	4261	1	20	3	3		X2	0	3		0250

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	18	S17	301	139	133	9	57	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	1340	3325	2498	0029889	0000	15000								
148		OBS	0000	1340	33248	2498			15000								
		OBS	0005	1308	34100	2570			15001								
002		OBS	0008	1350	34400	2585			15019								
		STD	0010	1397	3454	2586	0021554	0025	15037								
		OBS	0010	1397	34540	2586			15037								
		STD	0020	1160	3410	2599	0020351	0046	14953								
		OBS	0020	1160	34100	2599			14953								
		STD	0030	1095	3417	2616	0018714	0066	14932								
		OBS	0048	0999	34300	2643			14902								
		STD	0050	0990	3445	2656	0014958	0099	14901								
		OBS	0050	0990	34450	2656			14901								
		OBS	0060	0900	34300	2659			14868								
		OBS	0065	0808	34140	2661			14832								
		STD	0075	0756	3406	2662	0014386	0136	14812								
		OBS	0075	0756	34060	2662			14812								
		OBS	0080	0739	34150	2672			14808								
		OBS	0090	0564	34180	2697			14740								
		STD	0100	0684	3440	2699	0010925	0168	14793								
		OBS	0100	0684	34400	2699			14793								
		OBS	0107	0650	34400	2704			14780								
		STD	0125	0758	3460	2704	0010488	0195	14828								
		OBS	0125	0758	34600	2704			14828								
		OBS	0133	0942	34987	2706			14904								
		OBS	0143	0944	34975	2705			14906								
		STD	0150	0900	3477	2695	0011405	0222	14889								
		OBS	0150	0900	3438P	2665P											
		OBS	0163	0821	34720	2704			14860								
		OBS	0169	0836	34850	2712			14869								
		OBS	0173	0827	34810	2710			14865								
		OBS	0180	0858	34960	2717			14880								
		STD	0200	0660	3458	2716	0009418	0274	14802								
		OBS	0200	0660	34580	2716			14802								
		OBS	0211	0612	34498	2716			14784								
		STD	0250	0860	3510	2728	0008512	0319	14894								
		OBS	0250	0860	35100	2728			14894								
		OBS	0268	0707	34840	2730			14835								
		OBS	0275	0727	34888	2731			14845								
		STD	0300	0650	3475	2731	0008174	0360	14817								
		OBS	0300	0650	34750	2731			14817								
		OBS	0315	0536	34600	2734			14771								
		OBS	0322	0550	34653	2736			14779								
		OBS	0341	0491	34583	2738			14757								
		OBS	0360	0568	34800	2746			14794								
		OBS	0374	0552	34760	2744			14790								
		STD	0400	0569	3480	2745	0006893	0436	14801								
		OBS	0400	0569	34800	2745			14801								
		OBS	0429	0585	34917	2753			14814								
		OBS	0437	0571	34890	2752			14810								
		OBS	0459	0582	34956	2756			14818								
		OBS	0489	0552	34922	2757			14811								
		STD	0500	0552	3495	2759	0005724	0499	14813								
		OBS	0500	0552	34946	2759			14813								
		OBS	0504	0552	34947	2759			14814								
		OBS	0530	0508	34894	2760			14799								
		OBS	0550	0508	34911	2762			14803								
		OBS	0558	0496	34892	2762			14799								
		OBS	0592	0529	34980	2765			14819								
		STD	0600	0517	3496	2764	0005303	0554	14815								
		OBS	0600	0517	34960	2764			14815								
		OBS	0640	0517	34986	2767			14822								
		OBS	0655	0521	35000	2767			14827								
		OBS	0663	0570	35120	2771			14850								
		STD	0700	0538	3506	2770	0004967	0605	14842								
		OBS	0700	0538	35058	2770			14842								
		STD	0800	0493	3502	2772	0004785	0654	14840								
		OBS	0800	0493	35020	2772			14840								
		OBS	0830	0474	34999	2773			14836								
		OBS	0856	0476	35005	2773			14842								
		STD	0900	0465	3500	2774	0004689	0702	14844								
		OBS	0900	0465	35000	2774			14844								
		OBS	0941	0464	35001	2774			14851								
		STD	1000	0450	3499	2775	0004646	0748	14855								
		OBS	1000	0450	34995	2775			14855								
		STD	1100	0433	3497	2775	0004714	0795	14864								
		OBS	1100	0433	34970	2775			14864								
		STD	1200	0421	3497	2776	0004638	0842	14876								
		OBS	1200	0421	34973	2776			14876								

REFERENCE: CTRY CODE	REFERENCE: NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	4230 N	04640 W		149	26	06	22	164	1968	003	10290	4435	1	19	2	2		X2	0	3		0251

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S19	190	139	133	7	38	

MESSENGER TIME OF T HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	$\Sigma\Delta D$ DYN. M. $x 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOUND
		STD	0000	1460	3364	2503	0029381	0000	15044								
164		OBS	0000	1460	33640	2503			15044								
		OBS	0008	0900	33500	2597			14849								
		STD	0010	0950	3370	2604	0019789	0024	14870								
003		OBS	0010	0950	33700	2604			14870								
		STD	0020	1160	3452	2631	0017254	0043	14958								
		OBS	0020	1160	34520	2631			14958								
		OBS	0025	1078	34520	2646			14930								
		STD	0030	1088	3456	2647	0015727	0059	14935								
		OBS	0030	1088	34560	2647			14935								
		OBS	0033	1058	34750	2668			14927								
		STD	0050	1240	3536	2681	0012614	0087	15001								
		OBS	0050	1240	35360	2681			15001								
		OBS	0059	1372	35700	2680			15051								
		OBS	0072	1284	35480	2681			15021								
		STD	0075	1402	3578	2680	0012764	0119	15064								
		OBS	0075	1402	35780	2680			15064								
		OBS	0080	1340	35580	2678			15042								
		OBS	0087	1372	35680	2679			15055								
		STD	0100	1330	3556	2678	0013005	0151	15042								
		OBS	0100	1330	35560	2678			15042								
		STD	0125	1284	3552	2685	0012478	0183	15030								
		OBS	0125	1284	35520	2685			15030								
		OBS	0145	1297	35560	2685			15038								
		STD	0150	1272	3552	2687	0012325	0214	15030								
		OBS	0150	1272	35518	2687			15030								
		STD	0200	1241	3545	2688	0012367	0276	15027								
		OBS	0200	1241	35450	2688			15027								
		OBS	0235	1227	3449P	2616P											
		STD	0250	1236	3550	2693	0012036	0337	15034								
		OBS	0250	1236	35500	2693			15034								
		STD	0300	1175	3541	2697	0011682	0396	15020								
		OBS	0300	1175	35410	2697			15020								
		OBS	0342	0805	34740	2708			14884								
		OBS	0357	1046	35400	2720			14984								
		STD	0400	0850	3498	2720	0009528	0502	14914								
		OBS	0400	0850	34980	2720			14914								
		OBS	0425	0804	34940	2724			14900								
		OBS	0440	0849	35100	2730			14921								
		STD	0500	0542	3463	2735	0007941	0590	14805								
		OBS	0500	0542	34630	2735			14805								
		OBS	0515	0496	34640	2742			14788								
		STD	0600	0545	3478	2747	0006986	0664	14824								
		OBS	0600	0545	34780	2747			14824								
		OBS	0660	0552	34800	2748			14837								
		STD	0700	0543	3492	2758	0006054	0730	14842								
		OBS	0700	0543	34920	2758			14842								
		OBS	0735	0556	34990	2762			14854								
		OBS	0772	0580	35065	2765			14871								
		STD	0800	0570	3505	2765	0005577	0788	14871								
		OBS	0800	0570	35050	2765			14871								
		STD	0900	0525	3501	2768	0005357	0842	14869								
		OBS	0900	0525	35015	2768			14869								
		STD	1000	0476	3500	2772	0004938	0894	14866								
		OBS	1000	0476	35000	2772			14866								
		STD	1100	0461	3500	2774	0004858	0943	14876								
		OBS	1100	0461	35000	2774			14876								
		STD	1200	0440	3497	2774	0004868	0991	14884								
		OBS	1200	0440	34975	2774			14884								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		Ev	43000N	048000W		149	38	06	22	225	1968	003	10291	3449	1	24	3	2		X0	0	3		0252

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mba)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	23	S10	160	111	106	7	47	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	$\Sigma\Delta D$ DYN. M. $x 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0738	3280	2566	0023412	0000	14777								
225		OBS	0000	0738	32800	2566			14777								
		STD	0010	0326	3276	2610	0019231	0021	14609								
		OBS	0010	0326	32760	2610			14609								
		STD	0020	0220	3293	2632	0017103	0039	14566								
003		OBS	0020	0220	32930	2632			14566								
		OBS	0025	0201	32973	2637			14559								
		STD	0030	0166	3300	2642	0016196	0056	14545								
		OBS	0030	0166	33000	2642			14545								
		OBS	0040	0084	33130	2658			14512								
		OBS	0045	0100	33300	2670			14522								
		STD	0050	0069	3334	2675	0013013	0085	14510								
		OBS	0050	0069	33340	2675			14510								
		OBS	0060	0075	33520	2689			14516								
		OBS	0065	0030	33520	2692			14497								
		STD	0075	0054	3368	2704	0010308	0114	14512								
		OBS	0075	0054	33685	2704			14512								
		STD	0100	0154	3396	2719	0008863	0138	14564								
		OBS	0100	0154	33958	2719			14564								
		STD	0125	0521	3464	2739	0007156	0158	14735								
		OBS	0125	0521	34640	2739			14735								
		OBS	0130	0555	34680	2738			14750								
		OBS	0145	0488	34613	2740			14724								
		STD	0150	0505	3469	2745	0006631	0175	14733								
		OBS	0150	0505	34690	2745			14733								
		OBS	0156	0532	34743	2746			14745								
		OBS	0164	0525	34740	2746			14744								
		OBS	0168	0563	34810	2747			14761								
		OBS	0171	0540	34740	2744			14751								
		OBS	0180	0576	34820	2746			14768								
		OBS	0185	0554	34780	2746			14760								
		OBS	0192	0567	34815	2747			14767								
		STD	0200	0535	3478	2748	0006371	0208	14754								
		OBS	0200	0535	34780	2748			14754								
		OBS	0206	0552	34800	2748			14763								
		OBS	0220	0505	34770	2751			14745								
		OBS	0225	0531	34831	2753			14758								
		OBS	0242	0525	34850	2755			14758								
		STD	0250	0542	3489	2756	0005655	0238	14767								
		OBS	0250	0542	34895	2756			14767								
		OBS	0260	0555	34920	2757			14774								
		OBS	0293	0521	34899	2759			14766								
		STD	0300	0541	3496	2761	0005242	0265	14776								
		OBS	0300	0541	34958	2761			14776								
		OBS	0313	0555	34985	2762			14784								
		OBS	0321	0526	34920	2760			14773								
		STD	0400	0500	3495	2766	0004919	0316	14775								
		OBS	0400	0500	34951	2766			14775								
		STD	0500	0487	3498	2770	0004663	0364	14787								
		OBS	0500	0487	34980	2770			14787								
		OBS	0585	0475	35000	2773			14796								
		STD	0600	0492	3503	2773	0004499	0410	14806								
		OBS	0600	0492	35026	2773			14806								
		OBS	0630	0490	35010	2772			14810								
		OBS	0642	0458	34963	2772			14798								
		STD	0700	0432	3496	2774	0004364	0454	14797								
		OBS	0700	0432	34961	2774			14797								
		STD	0800	0425	3495	2775	0004425	0498	14811								
		OBS	0800	0425	34955	2775			14811								
		OBS	0855	0413	34948	2775			14815								
		OBS	0863	0395	34920	2775			14808								
		STD	0900	0392	3492	2775	0004391	0542	14813								
		STD	1000	0388	3492	2776	0004427	0586	14828								
		OBS	1000	0388	34921	2776			14828								
		STD	1100	0389	3493	2777	0004422	0630	14845								
		OBS	1100	0389	34935	2777			14845								
		STD	1200	0384	3494	2778	0004417	0674	14860								
		OBS	1200	0384	34939	2778			14860								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BDTTDM	MAX. DEPTN OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		Ev	43000N	047000W		149	37	06	23	026	1968	003	10292	4005	1	24	3	3		X0	0	3		0253

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	24	S19	152	144	133	7	29	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SECC
		STD	0000	1749	3596	2615	0018737	0000	15162								
026		OBS	0000	1749	35960	2615			15162								
		STD	0010	1652	3624	2660	0014533	0016	15138								
		OBS	0010	1652	36239	2660			15138								
		STD	0020	1635	3622	2663	0014294	0031	15134								
002		OBS	0020	1635	36225	2663			15134								
		OBS	0025	1630	36223	2664			15133								
		STD	0030	1629	3622	2664	0014227	0045	15134								
		OBS	0030	1629	36220	2664			15134								
		STD	0050	1599	3618	2667	0013919	0073	15127								
		OBS	0050	1599	36180	2667			15127								
		OBS	0068	1581	36179	2671			15125								
		STD	0075	1581	3619	2672	0013537	0107	15126								
		OBS	0075	1581	36190	2672			15126								
		STD	0100	1581	3620	2673	0013553	0141	15130								
		OBS	0100	1581	36198	2673			15130								
		STD	0125	1578	3619	2673	0013641	0175	15133								
		OBS	0125	1578	36188	2673			15133								
		STD	0150	1560	3615	2674	0013626	0209	15131								
		OBS	0150	1560	36147	2674			15131								
		OBS	0190	1545	36118	2675			15133								
		STD	0200	1524	3607	2676	0013564	0277	15127								
		OBS	0200	1524	36070	2676			15127								
		STD	0250	1442	3588	2679	0013378	0345	15107								
		OBS	0250	1442	35878	2679			15107								
		STD	0300	1355	3570	2684	0013012	0411	15085								
		OBS	0300	1447P	35704	2665P											
		OBS	0395	1190	35489	2701			15042								
		STD	0400	1149	3539	2701	0011597	0534	15028								
		OBS	0400	1149	35390	2701			15028								
		OBS	0479	0975	35215	2718			14976								
		OBS	0485	0986	35248	2719			14982								
		STD	0500	0940	3519	2722	0009619	0640	14966								
		OBS	0500	0940	35190	2722			14966								
		OBS	0545	0861	35175	2734			14944								
		OBS	0571	0861	35192	2735			14949								
		STD	0600	0815	3513	2738	0008211	0729	14935								
		OBS	0600	0815	35135	2738			14935								
		OBS	0639	0771	35158	2746			14925								
		OBS	0650	0686	35010	2747			14892								
		STD	0700	0662	3508	2755	0006492	0802	14892								
		OBS	0700	0662	35080	2755			14892								
		OBS	0720	0662	35080	2755			14895								
		STD	0800	0610	3509	2763	0005837	0864	14888								
		OBS	0800	0610	35089	2763			14888								
		OBS	0850	0555	35049	2767			14874								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DIFF. INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44000N	046225W		149	46	06	23	097	1968	003	10293	4206	1	26	8	3		X2	0	3		0254

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S35	125	100	089	7	41	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SEC
		STD	0000	0907	3298	2555	0024455	0000	14844								
097		OBS	0000	0907	32980	2555			14844								
		STD	0010	0756	3300	2579	0022176	0023	14788								
		OBS	0010	0756	33000	2579			14788								
002		OBS	0018	0675	33320	2615			14762								
		STD	0020	0710	3352	2626	0017706	0043	14778								
		OBS	0020	0710	33520	2626			14778								
		OBS	0025	0732	33560	2626			14788								
		STD	0030	0769	3374	2635	0016874	0060	14806								
		OBS	0030	0769	33740	2635			14806								
		OBS	0040	0595	33920	2673			14741								
		OBS	0045	0650	34100	2680			14766								
		STD	0050	0665	3418	2684	0012248	0089	14774								
		OBS	0050	0665	34180	2684			14774								
		OBS	0060	0700	34240	2684			14790								
		STD	0075	0900	3474	2693	0011446	0119	14876								
		OBS	0075	0900	34740	2693			14876								
		OBS	0085	0960	34860	2693			14901								
		STD	0100	0840	3462	2694	0011474	0147	14856								
		OBS	0100	0840	34620	2694			14856								
		OBS	0120	0808	34620	2698			14847								
		STD	0125	0820	3466	2700	0010929	0175	14853								
		OBS	0125	0820	34660	2700			14853								
		OBS	0135	0870	34755	2699			14875								
		OBS	0140	0792	34660	2704			14845								
		STD	0150	0816	3473	2706	0010396	0202	14856								
		OBS	0150	0816	34730	2706			14856								
		OBS	0170	0725	34580	2707			14823								
		OBS	0187	0600	34410	2711			14774								
		STD	0200	0690	3457	2711	0009890	0253	14814								
		OBS	0200	0690	34570	2711			14814								
		OBS	0210	0850	34980	2720			14882								
		STD	0250	0729	3480	2724	0008801	0300	14840								
		OBS	0250	0729	34800	2724			14840								
		OBS	0290	0470	34620	2743			14740								
		STD	0300	0600	3485	2746	0006783	0339	14798								
		OBS	0300	0600	34850	2746			14798								
		OBS	0340	0660	34940	2745			14830								
		OBS	0380	0475	34720	2750			14759								
		STD	0400	0540	3486	2754	0006086	0403	14790								
		OBS	0400	0540	34860	2754			14790								
		OBS	0440	0550	34920	2757			14802								
		OBS	0470	0585	34995	2759			14822								
		STD	0500	0540	3493	2760	0005656	0462	14808								
		OBS	0500	0540	34935	2760			14808								
		STD	0600	0494	3494	2766	0005163	0516	14806								
		OBS	0600	0494	34940	2766			14806								
		STD	0700	0480	3497	2770	0004845	0566	14817								
		OBS	0700	0480	34975	2770			14817								
		STD	0800	0469	3499	2772	0004704	0613	14829								
		OBS	0800	0469	34990	2772			14829								
		STD	0900	0454	3499	2774	0004630	0660	14840								
		OBS	0900	0454	34990	2774			14840								
		STD	1000	0422	3495	2775	0004588	0706	14843								
		OBS	1000	0422	34955	2775			14843								
		STD	1100	0414	3496	2777	0004514	0752	14856								
		OBS	1100	0414	34965	2777			14856								
		STD	1200	0409	3495	2776	0004621	0797	14871								
		OBS	1200	0409	34955	2776			14871								
		STD	1300	0398	3495	2777	0004609	0844	14883								
		OBS	1300	0398	34950	2777			14883								
		STD	1400	0390	3495	2778	0004593	0890	14896								
		OBS	1400	0390	34950	2778			14896								
		STD	1500	0386	3495	2778	0004623	0936	14911								
		OBS	1500	0386	34950	2778			14911								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	48190N	046100W		149	86	06	24	107	1968	003	10294	1189	1	30	4	3		X6	0	3		0255

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
OT	SD	27	S11	091	044	044	2	29	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$x10^7$	$\Sigma\Delta D$ DYN. M. $x\ 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	CODE
		STD	0000	0395	3354	2665	0013975	0000	14647								
107		OBS	0000	0395	33538	2665			14647								
		OBS	0004	0415	33600	2668			14657								
		STD	0010	0414	3362	2670	0013549	0013	14658								
002		OBS	0010	0414	33620	2670			14658								
		OBS	0012	0320	33660	2682			14618								
		STD	0020	0300	3395	2707	0009999	0025	14615								
		OBS	0020	0300	33953	2707			14615								
		OBS	0025	0329	34000	2708			14629								
		STD	0030	0330	3410	2716	0009140	0035	14632								
		OBS	0030	0330	34103	2716			14632								
		OBS	0040	0225	34050	2721			14587								
		STD	0050	0150	3410	2731	0007776	0052	14556								
		OBS	0050	0150	34096	2731			14556								
		OBS	0055	0112	34080	2732			14540								
		OBS	0060	0124	34092	2732			14546								
		STD	0075	0300	3435	2739	0007045	0070	14630								
		OBS	0075	0300	34350	2739			14630								
		OBS	0085	0273	34400	2745			14620								
		STD	0100	0283	3453	2755	0005542	0086	14629								
		OBS	0100	0283	34531	2755			14629								
		STD	0125	0335	3469	2763	0004837	0099	14657								
		OBS	0125	0335	34690	2763			14657								
		STD	0150	0358	3470	2761	0005000	0111	14671								
		OBS	0150	0358	34700	2761			14671								
		STD	0200	0398	3481	2766	0004586	0135	14698								
		OBS	0200	0398	34815	2766			14698								
		STD	0250	0395	3484	2768	0004425	0158	14705								
		OBS	0250	0395	34839	2768			14705								
		OBS	0280	0405	34860	2769			14715								
		STD	0300	0402	3486	2769	0004387	0180	14717								
		OBS	0300	0402	34860	2769			14717								
		OBS	0350	0384	34841	2770			14717								
		STD	0400	0390	3486	2771	0004319	0223	14728								
		OBS	0400	0390	34864	2771			14728								
		STD	0500	0395	3488	2772	0004329	0266	14747								
		OBS	0500	0395	34883	2772			14747								
		STD	0600	0385	3490	2774	0004184	0309	14760								
		OBS	0600	0385	34900	2774			14760								
		STD	0700	0388	3490	2774	0004280	0351	14778								
		OBS	0700	0388	34904	2774			14778								
		STD	0800	0383	3490	2775	0004308	0394	14792								
		OBS	0800	0383	34905	2775			14792								
		STD	0900	0374	3491	2776	0004253	0437	14805								
		OBS	0900	0374	34910	2776			14805								
		STD	1000	0370	3492	2777	0004224	0479	14820								
		OBS	1000	0370	34919	2777			14820								
		OBS	1025	0370	34919	2777			14825								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47590N	046100W		149	76	06	24	129	1968	003	10295	1079	1	30	5	3		X4	0	3		0256

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	00	S00	010	061	061	6	25	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOC
		STD	0000	0465	3355	2659	0014581	0000	14676								
129		OBS	0000	0465	33550	2659			14676								
		STD	0010	0342	3374	2687	0011955	0013	14629								
		OBS	0010	0342	33742	2687			14629								
		STD	0020	0276	3374	2692	0011425	0025	14602								
002		OBS	0020	0276	33738	2692			14602								
		OBS	0025	0200	33760	2700			14570								
		STD	0030	0188	3390	2712	0009535	0035	14567								
		OBS	0030	0188	33898	2712			14567								
		STD	0050	0240	3432	2742	0006759	0051	14599								
		OBS	0050	0240	34318	2742			14599								
		OBS	0060	0235	34305	2741			14598								
		STD	0075	0254	3449	2754	0005593	0067	14612								
		OBS	0075	0254	34490	2754			14612								
		STD	0100	0310	3454	2753	0005712	0081	14641								
		OBS	0100	0310	34540	2753			14641								
		STD	0125	0327	3464	2759	0005140	0094	14653								
		OBS	0125	0327	34640	2759			14653								
		STD	0150	0354	3471	2763	0004846	0107	14670								
		OBS	0150	0354	34715	2763			14670								
		STD	0200	0381	3476	2764	0004820	0131	14690								
		OBS	0200	0381	34760	2764			14690								
		STD	0250	0400	3483	2767	0004554	0154	14707								
		OBS	0250	0400	34829	2767			14707								
		STD	0300	0413	3485	2768	0004566	0177	14721								
		OBS	0300	0413	34852	2768			14721								
		OBS	0350	0400	34863	2770			14724								
		OBS	0380	0405	34880	2771			14732								
		STD	0400	0432	3492	2771	0004369	0222	14747								
		OBS	0400	0432	34920	2771			14747								
		OBS	0450	0442	34900	2768			14759								
		OBS	0460	0425	34900	2770			14754								
		STD	0500	0435	3492	2771	0004503	0266	14765								
		OBS	0500	0435	34920	2771			14765								
		STD	0600	0415	3491	2772	0004451	0311	14773								
		OBS	0600	0415	34910	2772			14773								
		STD	0700	0392	3489	2773	0004439	0356	14779								
		OBS	0700	0392	34889	2773			14779								
		STD	0800	0390	3490	2774	0004419	0400	14795								
		OBS	0800	0390	34900	2774			14795								
		STD	0900	0378	3490	2775	0004333	0444	14807								
		OBS	0900	0378	34905	2775			14807								
		OBS	0950	0370	34913	2777			14812								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MD	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47390N	046100W		149	76	06	24	148	1968	003	10296	1006	1	30	5	3		X2	0	3		0257

WATER CDLDR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S05	105	067	067	6	25	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0481	3367	2667	0013848	0000	14685								
148		OBS	0000	0481	33670	2667			14685								
		OBS	0005	0450	33700	2672			14673								
		STD	0010	0454	3380	2680	0012600	0013	14677								
002		OBS	0010	0454	33800	2680			14677								
		STD	0020	0439	3384	2685	0012121	0025	14673								
		OBS	0020	0439	33845	2685			14673								
		OBS	0025	0358	33780	2688			14638								
		STD	0030	0305	3390	2702	0010457	0036	14618								
		OBS	0030	0305	33899	2702			14618								
		OBS	0045	0323	33950	2705			14629								
		STD	0050	0295	3393	2706	0010152	0057	14618								
		OBS	0050	0295	33930	2706			14618								
		OBS	0059	0195	33850	2708			14574								
		STD	0075	0258	3440	2747	0006306	0078	14612								
		OBS	0075	0258	34400	2747			14612								
		STD	0100	0280	3454	2756	0005425	0092	14628								
		OBS	0100	0280	34543	2756			14628								
		STD	0125	0313	3460	2758	0005307	0106	14647								
		OBS	0125	0313	34600	2758			14647								
		STD	0150	0386	3478	2765	0004687	0118	14684								
		OBS	0150	0386	34779	2765			14684								
		OBS	0165	0419	34820	2764			14701								
		OBS	0175	0412	34810	2764			14700								
		STD	0200	0421	3484	2766	0004642	0141	14708								
		OBS	0200	0421	34840	2766			14708								
		OBS	0215	0452	34885	2766			14724								
		STD	0250	0450	3489	2767	0004629	0165	14729								
		OBS	0250	0450	34890	2767			14729								
		STD	0300	0449	3490	2767	0004611	0188	14737								
		OBS	0300	0449	34899	2767			14737								
		STD	0400	0429	3490	2769	0004501	0233	14745								
		OBS	0400	0429	34897	2769			14745								
		STD	0500	0420	3492	2773	0004297	0277	14758								
		OBS	0500	0420	34925	2773			14758								
		STD	0600	0400	3491	2773	0004296	0320	14766								
		OBS	0600	0400	34908	2773			14766								
		STD	0700	0387	3490	2774	0004296	0363	14777								
		OBS	0700	0387	34900	2774			14777								
		STD	0800	0375	3490	2775	0004239	0406	14789								
		OBS	0800	0375	34901	2775			14789								
		STD	0900	0369	3492	2778	0004118	0448	14803								
		OBS	0900	0369	34920	2778			14803								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICA	M/R SQUARE 10°	M/R SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318	039	EV	47200N	046100W		149	76	06	24	168	1968	003	10297	0412	1	26	2	2		X2	0	3		0258

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S07	110	089	078	7	22	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SECC
		STD	0000	0725	3374	2641	0016228	0000	14784								
168		OBS	0000	0725	33740	2641			14784								
		STD	0010	0720	3374	2642	0016153	0016	14784								
		OBS	0010	0720	33744	2642			14784								
		STD	0020	0716	3373	2642	0016204	0032	14783								
001		OBS	0020	0716	33732	2642			14783								
		OBS	0022	0715	33730	2642			14783								
		OBS	0025	0544	33660	2658			14714								
		STD	0030	0571	3371	2659	0014554	0047	14727								
		OBS	0030	0571	33714	2659			14727								
		OBS	0045	0575	33960	2678			14734								
		STD	0050	0600	3404	2682	0012484	0074	14746								
		OBS	0050	0600	34040	2682			14746								
		OBS	0068	0742	34350	2687			14810								
		OBS	0073	0700	34290	2688			14793								
		STD	0075	0720	3456	2707	0010180	0103	14805								
		OBS	0075	0720	34560	2707			14805								
		OBS	0090	0780	34750	2713			14833								
		STD	0100	0745	3470	2714	0009522	0127	14821								
		OBS	0100	0745	34700	2714			14821								
		STD	0125	0640	3461	2721	0008831	0150	14782								
		OBS	0125	0640	34610	2721			14782								
		STD	0150	0469	3437	2723	0008627	0172	14714								
		OBS	0150	0469	34370	2723			14714								
		OBS	0154	0458	34360	2724			14710								
		OBS	0162	0501	34640	2741			14732								
		OBS	0178	0452	34628	2746			14715								
		STD	0200	0454	3472	2753	0005882	0208	14720								
		OBS	0200	0454	34722	2753			14720								
		STD	0250	0454	3472	2753	0005935	0238	14729								
		OBS	0250	0454	34722	2753			14729								
		STD	0300	0451	3488	2766	0004774	0265	14738								
		OBS	0300	0451	34880	2766			14738								
		OBS	0350	0425	34901	2770			14735								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47090N	046100W		149	76	06	24	180	1968	003	10298	0348	1	27	3	5		X0	0	3		0259

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S07	113	094	089	9	24	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ ΔD DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SUC
		STD	0000	0730	3375	2641	0016228	0000	14786								
180		OBS	0000	0730	33750	2641			14786								
		STD	0010	0723	3376	2643	0016090	0016	14785								
		OBS	0010	0723	33758	2643			14785								
		STD	0020	0722	3376	2643	0016087	0032	14786								
001		OBS	0020	0722	33758	2643			14786								
		OBS	0025	0635	33660	2647			14751								
		STD	0030	0630	3378	2657	0014766	0047	14752								
		OBS	0030	0630	33780	2657			14752								
		OBS	0045	0606	33940	2673			14747								
		STD	0050	0605	3399	2677	0012918	0075	14748								
		OBS	0050	0605	33990	2677			14748								
		STD	0075	0524	3416	2700	0010724	0104	14721								
		OBS	0075	0524	34160	2700			14721								
		STD	0100	0633	3456	2718	0009075	0129	14775								
		OBS	0100	0633	34560	2718			14775								
		OBS	0105	0652	34620	2721			14784								
		OBS	0116	0547	34535	2727			14742								
		STD	0125	0553	3456	2729	0008130	0151	14747								
		OBS	0125	0553	34560	2729			14747								
		OBS	0140	0600	34660	2731			14769								
		STD	0150	0515	3458	2735	0007571	0170	14735								
		OBS	0150	0515	34580	2735			14735								
		OBS	0175	0485	34500	2732			14726								
		OBS	0181	0512	34730	2747			14741								
		OBS	0198	0512	34720	2746			14744								
		STD	0200	0495	3470	2746	0006505	0206	14737								
		OBS	0200	0495	34700	2746			14737								
		OBS	0216	0438	34738	2756			14717								
		OBS	0239	0443	34750	2756			14723								
		OBS	0242	0420	34730	2757			14713								
		STD	0250	0422	3478	2761	0005151	0235	14716								
		OBS	0250	0422	34780	2761			14716								
		OBS	0265	0465	34840	2762			14733								
		STD	0300	0470	3491	2766	0004760	0259	14746								
		OBS	0300	0470	34910	2766			14746								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MD	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47000N	046100W		149	76	06	24	189	1968	003	10299	0357	1	26	3	2		X2	0	3		0260

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	35	S04	110	094	083	7	23	

MESSENGR TIME or HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ ΔD DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SOC
		STD	0000	0730	3370	2638	0016563	0000	14785								
189		OBS	0000	0730	33705	2638			14785								
		STD	0010	0729	3370	2638	0016570	0016	14787								
		OBS	0010	0729	33704	2638			14787								
001		OBS	0015	0700	33660	2639			14775								
		STD	0020	0600	3363	2649	0015511	0032	14736								
		OBS	0020	0600	33630	2649			14736								
		OBS	0025	0605	33695	2654			14740								
		STD	0030	0601	3374	2658	0014710	0047	14739								
		OBS	0030	0601	33740	2658			14739								
		OBS	0035	0596	33800	2663			14739								
		STD	0050	0599	3404	2682	0012466	0074	14746								
		OBS	0050	0599	34040	2682			14746								
		OBS	0055	0541	34100	2694			14724								
		OBS	0065	0539	34217	2703			14726								
		STD	0075	0491	3429	2714	0009382	0102	14709								
		OBS	0075	0491	34290	2714			14709								
		OBS	0079	0518	34340	2715			14722								
		STD	0100	0506	3441	2722	0008673	0124	14721								
		OBS	0100	0506	34411	2722			14721								
		OBS	0102	0524	34481	2726			14730								
		OBS	0117	0578	34620	2730			14756								
		STD	0125	0572	3463	2732	0007838	0145	14755								
		OBS	0143	0558	34650	2735			14753								
		STD	0150	0489	3456	2736	0007427	0164	14724								
		OBS	0150	0489	34560	2736			14724								
		OBS	0175	0492	34699	2747			14732								
		OBS	0192	0489	34690	2746			14733								
		STD	0200	0457	3480	2759	0005325	0196	14723								
		OBS	0200	0457	34800	2759			14723								
		OBS	0225	0495	34859	2759			14743								
		STD	0250	0478	3488	2763	0005024	0222	14741								
		OBS	0250	0478	34880	2763			14741								
		STD	0300	0440	3488	2767	0004622	0246	14733								
		OBS	0300	0440	34884	2767			14733								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47000N	046285W		149	76	06	24	204	1968	003	10300	0384	1	28	3	2		X4	0	3		0261

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	35	S04	105	078	078	1	18	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	CODE
		STD	0000	0740	3376	2641	0016283	0000	14790								
204		OBS	0000	0740	33760	2641			14790								
		STD	0010	0729	3376	2642	0016153	0016	14787								
		OBS	0010	0729	33760	2642			14787								
		STD	0020	0720	3372	2641	0016313	0032	14785								
001		OBS	0020	0720	33725	2641			14785								
		OBS	0025	0670	33851	2658			14768								
		STD	0030	0663	3386	2659	0014578	0047	14766								
		OBS	0030	0663	33860	2659			14766								
		STD	0050	0648	3373	2651	0015391	0077	14761								
		OBS	0050	0648	33729	2651			14761								
		OBS	0065	0389	33600	2671			14656								
		STD	0075	0290	3386	2701	0010653	0110	14619								
		OBS	0075	0290	33860	2701			14619								
		OBS	0093	0300	34312	2736			14632								
		STD	0100	0328	3434	2736	0007348	0132	14646								
		OBS	0100	0328	34345	2736			14646								
		OBS	0105	0374	34500	2744			14668								
		STD	0125	0399	3454	2744	0006596	0150	14683								
		OBS	0125	0399	34539	2744			14683								
		STD	0150	0464	3471	2751	0006030	0166	14716								
		OBS	0150	0464	34709	2751			14716								
		OBS	0175	0479	34750	2752			14727								
		OBS	0190	0479	34770	2754			14730								
		STD	0200	0460	3478	2757	0005507	0195	14724								
		OBS	0200	0460	34780	2757			14724								
		STD	0250	0449	3486	2764	0004862	0220	14728								
		OBS	0250	0449	34858	2764			14728								
		STD	0300	0420	3490	2771	0004284	0243	14725								
		OBS	0300	0420	34900	2771			14725								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47000N	046450W		149	76	06	24	216	1968	003	10301	1216	1	31	2	2		X4	0	3		0262

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	00	S00	100	078	067	1	27	

MESSENGR TIME or HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SEC
		STD	0000	0443	3331	2642	0016183	0000	14664								
216		OBS	0000	0443	33307	2642			14664								
		STD	0010	0350	3360	2675	0013095	0014	14630								
		OBS	0010	0350	33600	2675			14630								
002		OBS	0015	0324	33799	2693			14623								
		STD	0020	0338	3380	2692	0011474	0026	14629								
		OBS	0020	0338	33802	2692			14629								
		OBS	0025	0300	33804	2695			14614								
		STD	0030	0265	3381	2699	0010797	0038	14600								
		OBS	0030	0265	33810	2699			14600								
		OBS	0042	0282	33860	2701			14610								
		STD	0050	0185	3390	2712	0009505	0058	14569								
		OBS	0050	0185	33900	2712			14569								
		OBS	0060	0132	33982	2723			14548								
		OBS	0070	0244	34210	2733			14603								
		STD	0075	0200	3418	2734	0007504	0079	14584								
		OBS	0075	0200	34180	2734			14584								
		OBS	0089	0158	34148	2734			14567								
		STD	0100	0250	3449	2755	0005534	0095	14614								
		OBS	0100	0250	34495	2755			14614								
		STD	0125	0279	3454	2756	0005476	0109	14631								
		OBS	0125	0279	34538	2756			14631								
		STD	0150	0415	3480	2763	0004823	0122	14697								
		OBS	0150	0415	34800	2763			14697								
		OBS	0165	0378	34791	2766			14684								
		STD	0200	0440	3486	2765	0004696	0146	14716								
		OBS	0200	0440	34860	2765			14716								
		STD	0250	0445	3490	2768	0004509	0169	14727								
		OBS	0250	0445	34899	2768			14727								
		STD	0300	0454	3491	2768	0004542	0192	14739								
		OBS	0300	0454	34915	2768			14739								
		STD	0400	0445	3491	2769	0004588	0237	14752								
		OBS	0400	0445	34910	2769			14752								
		STD	0500	0430	3492	2771	0004461	0282	14762								
		OBS	0500	0430	34918	2771			14762								
		STD	0600	0400	3491	2774	0004278	0326	14766								
		OBS	0600	0400	34910	2774			14766								
		STD	0700	0394	3491	2774	0004290	0369	14781								
		OBS	0700	0394	34912	2774			14781								
		STD	0800	0384	3491	2776	0004239	0412	14793								
		OBS	0800	0384	34915	2776			14793								
		STD	0900	0379	3492	2776	0004255	0454	14808								
		OBS	0900	0379	3472P	2761P											
		STD	1000	0375	3492	2777	0004245	0497	14823								
		OBS	1000	0375	34924	2777			14823								
		STD	1100	0366	3493	2779	0004148	0539	14836								
		OBS	1100	0366	34934	2779			14836								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47000N	046590W		149	76	06	24	229	1968	003	10302	1216	1	31	2	3		X4	0	3		0263

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	00	S00	100	078	067	1	31	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	TCC
		STD	0000	0355	3308	2633	0017025	0000	14624								
229		OBS	0000	0355	33085	2633			14624								
		STD	0010	0330	3307	2635	0016886	0017	14614								
		OBS	0010	0330	33075	2635			14614								
002		OBS	0013	0437	33938	2693			14672								
		STD	0020	0438	3398	2696	0011072	0030	14674								
		OBS	0020	0438	33983	2696			14674								
		OBS	0023	0443	33989	2696			14677								
		OBS	0025	0430	33970	2696			14671								
		STD	0030	0390	3392	2696	0011078	0042	14655								
		OBS	0030	0390	33920	2696			14655								
		OBS	0046	0380	34020	2705			14655								
		STD	0050	0117	3386	2714	0009351	0062	14538								
		OBS	0050	0117	33860	2714			14538								
		OBS	0064	0179	34020	2723			14570								
		STD	0075	0126	3399	2724	0008427	0084	14548								
		OBS	0075	0126	33990	2724			14548								
		OBS	0076	0113	34080	2732			14544								
		OBS	0082	0116	34145	2737			14547								
		OBS	0090	0159	34222	2740			14569								
		STD	0100	0156	3426	2743	0006591	0103	14570								
		OBS	0100	0156	34260	2743			14570								
		STD	0125	0239	3445	2752	0005797	0118	14613								
		OBS	0125	0239	34450	2752			14613								
		OBS	0138	0238	34445	2752			14614								
		STD	0150	0288	3461	2761	0005037	0132	14640								
		OBS	0150	0288	34609	2761			14640								
		STD	0200	0392	3481	2767	0004565	0156	14696								
		OBS	0200	0392	34810	2767			14696								
		OBS	0211	0395	34815	2767			14699								
		OBS	0230	0366	34747	2764			14689								
		STD	0250	0378	3480	2767	0004558	0179	14698								
		OBS	0250	0378	34797	2767			14698								
		STD	0300	0399	3485	2769	0004448	0201	14716								
		OBS	0300	0399	34848	2769			14716								
		STD	0400	0422	3490	2770	0004404	0246	14742								
		OBS	0400	0422	34900	2770			14742								
		STD	0500	0421	3492	2772	0004325	0489	14759								
		OBS	0500	0421	34922	2772			14759								
		OBS	0525	0406	34900	2772			14756								
		STD	0600	0417	3492	2773	0004356	0333	14774								
		OBS	0600	0417	34925	2773			14774								
		STD	0700	0401	3492	2775	0004285	0376	14784								
		OBS	0700	0401	3412P	2711P											
		STD	0800	0390	3492	2776	0004259	0419	14796								
		OBS	0800	0390	34922	2776			14796								
		STD	0900	0382	3492	2777	0004235	0461	14809								
		OBS	0900	0382	34925	2777			14809								
		STD	1000	0375	3493	2778	0004201	0503	14823								
		OBS	1000	0375	34930	2778			14823								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	47000N	047140W		149	77	06	25	002	1968	003	10303	0470	1	31	2	3		X4	0	3		0264

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	00	S00	980	061	056	1	28	

MESSENGR TIME OR HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	NCC
		STD	0000	0363	3267	2599	0020240	0000	14621								
002		OBS	0000	0363	32668	2599			14621								
		OBS	0009	0280	32640	2604			14587								
		STD	0010	0192	3266	2613	0018946	0019	14549								
001		OBS	0010	0192	32660	2613			14549								
		STD	0020	0122	3277	2626	0017659	0037	14521								
		OBS	0020	0122	32770	2626			14521								
		OBS	0025	-0003	32780	2634			14465								
		OBS	0027	0041	33060	2654			14489								
		STD	0030	0011	3302	2653	0015161	0054	14475								
		OBS	0030	0011	33020	2653			14475								
		OBS	0036	-0056	33100	2662			14447								
		OBS	0041	-0026	33300	2677			14464								
		STD	0050	-0079	3326	2676	0012919	0082	14441								
		OBS	0050	-0079	33263	2676			14441								
		STD	0075	-0005	3363	2702	0010430	0111	14484								
		OBS	0075	-0005	33628	2702			14484								
		OBS	0079	0006	33642	2703			14490								
		OBS	0090	0008	33700	2708			14493								
		STD	0100	0098	3396	2723	0008478	0135	14539								
		OBS	0100	0098	33960	2723			14539								
		OBS	0106	0119	34000	2725			14550								
		OBS	0118	0120	34010	2726			14553								
		STD	0125	0111	3404	2729	0007953	0155	14551								
		OBS	0125	0111	34040	2729			14551								
		OBS	0130	0108	34040	2729			14550								
		STD	0150	0174	3430	2745	0006433	0173	14586								
		OBS	0150	0174	34300	2745			14586								
		OBS	0167	0230	34435	2752			14616								
		STD	0200	0268	3450	2754	0005672	0204	14638								
		OBS	0200	0268	34505	2754			14638								
		STD	0250	0318	3464	2761	0005123	0231	14670								
		OBS	0250	0318	34643	2761			14670								
		STD	0300	0357	3473	2764	0004911	0256	14696								
		OBS	0300	0357	34728	2764			14696								
		OBS	0329	0384	34784	2765			14713								
		OBS	0345	0384	34786	2765			14716								
		OBS	0347	0398	34830	2767			14723								
		OBS	0350	0399	34830	2767			14724								
		STD	0400	0402	3484	2768	0004663	0303	14733								
		OBS	0400	0402	34836	2768			14733								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47300N	047300W		149	77	06	25	016	1968	003	10304	0220	1	31	2	3		X4	0	3		0265

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	00	S00	091	056	050	1	19	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0354	3251	2588	0021318	0000	14616								
016		OBS	0000	0354	32515	2588			14616								
		STD	0010	0327	3248	2588	0021332	0021	14605								
		OBS	0010	0327	32482	2588			14605								
001		OBS	0017	0179	32470	2599			14541								
		STD	0020	0185	3249	2600	0020197	0042	14545								
		OBS	0020	0185	32490	2600			14545								
		OBS	0025	0128	32500	2604			14520								
		OBS	0027	0108	32530	2608			14512								
		STD	0030	0154	3257	2608	0019390	0061	14534								
		OBS	0030	0154	32569	2608			14534								
		OBS	0031	0143	32590	2611			14529								
		OBS	0034	0155	32627	2613			14536								
		STD	0050	-0045	3294	2650	0015350	0096	14435								
		OBS	0050	-0085	32943	2650			14433								
		OBS	0064	-0138	33118	2666			14413								
		STD	0075	-0064	3347	2687	0011917	0130	14454								
		OBS	0075	-0064	33400	2687			14454								
		OBS	0085	-0010	33580	2699			14483								
		OBS	0092	-0025	33600	2701			14477								
		STD	0100	0016	3365	2703	0010341	0158	14498								
		OBS	0100	0016	33653	2703			14498								
		STD	0125	0073	3383	2714	0009310	0183	14531								
		OBS	0125	0073	33830	2714			14531								
		OBS	0148	0119	34005	2726			14557								
		STD	0150	0140	3403	2726	0008230	0205	14567								
		OBS	0150	0140	34030	2726			14567								
		STD	0200	0167	3409	2729	0007994	0245	14589								
		OBS	0200	0167	34089	2729			14589								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47000N	047440W		149	77	06	25	025	1968	003	10305	0174	1	31	2	3		X4	0	3		0266

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	35	S10	091	061	056	1	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0421	3256	2585	0021581	0000	14645								
025		OBS	0000	0421	32561	2585			14645								
		STD	0010	0421	3256	2585	0021588	0021	14646								
		OBS	0010	0421	32561	2585			14646								
		STD	0020	0106	3249	2605	0019695	0042	14510								
001		OBS	0020	0106	32490	2605			14510								
		OBS	0025	0045	32500	2609			14483								
		STD	0030	0006	3268	2626	0017712	0060	14468								
		OBS	0030	0006	32683	2626			14468								
		OBS	0035	-0074	32791	2638			14434								
		STD	0050	-0130	3301	2657	0014701	0093	14413								
		OBS	0050	-0130	33009	2657			14413								
		OBS	0060	-0129	33078	2663			14416								
		OBS	0067	-0100	33110	2664			14431								
		OBS	0074	-0100	33113	2665			14433								
		STD	0075	-0108	3311	2665	0013984	0129	14429								
		OBS	0075	-0108	33110	2665			14429								
		OBS	0080	-0111	33148	2668			14429								
		STD	0100	-0055	3333	2681	0012441	0162	14461								
		OBS	0100	-0055	33335	2681			14461								
		STD	0125	0032	3363	2700	0010622	0191	14509								
		OBS	0125	0032	33627	2700			14509								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47000N	048000W		149	78	06	25	036	1968	003	10306	0133	1	31	2	2		X4	0	3		0267

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	02	S11	091	061	056	1	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0436	3259	2586	0021509	0000	14651								
036		OBS	0000	0436	32590	2586			14651								
		OBS	0005	0435	32588	2586			14652								
		STD	0010	0421	3259	2587	0021398	0021	14647								
001		OBS	0010	0421	32587	2587			14647								
		OBS	0014	0291	32640	2603			14592								
		STD	0020	0288	3265	2605	0019732	0042	14592								
		OBS	0020	0288	32652	2605			14592								
		OBS	0025	0265	32640	2606			14583								
		STD	0030	0234	3263	2607	0019478	0061	14570								
		OBS	0030	0234	32631	2607			14570								
		STD	0050	-0016	3301	2653	0015125	0096	14466								
		OBS	0050	-0016	33008	2653			14466								
		OBS	0055	-0041	33035	2656			14456								
		OBS	0064	-0041	33104	2662			14458								
		STD	0075	-0021	3321	2670	0013534	0132	14471								
		OBS	0075	-0021	33212	2670			14471								
		OBS	0091	-0009	33305	2677			14480								
		STD	0100	0025	3351	2691	0011480	0163	14500								
		OBS	0100	0025	33510	2691			14500								
		OBS	0115	0053	33640	2700			14517								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	47000N	048140W		149	78	06	25	043	1968	003	10307	0119	1	32	1	2		X4	0	3		0268

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	02	S12	090	061	056	1	13	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0494	3261	2581	0021944	0000	14676								
043		OBS	0000	0494	32610	2581			14676								
		OBS	0007	0492	32610	2581			14676								
		STD	0010	0475	3259	2582	0021870	0021	14669								
001		OBS	0010	0475	32595	2582			14669								
		STD	0020	0313	3248	2589	0021245	0043	14601								
		OBS	0020	0313	32479	2589			14601								
		OBS	0025	0304	32633	2602			14600								
		STD	0030	0300	3266	2604	0019791	0064	14599								
		OBS	0030	0300	32658	2604			14599								
		OBS	0036	0299	32671	2605			14600								
		STD	0050	0120	3270	2621	0018183	0132	14524								
		OBS	0050	0120	32700	2621			14524								
		OBS	0054	0028	32760	2631			14484								
		STD	0075	-0012	3308	2658	0014533	0142	14473								
		OBS	0075	-0012	33079	2658			14473								
		OBS	0090	-0015	33132	2663			14473								
		OBS	0094	-0001	33215	2669			14483								
		STD	0100	0014	3334	2678	0012714	0177	14493								
		OBS	0100	0014	33340	2678			14493								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICR.	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
316039		EV	44 [illegible] N	046320W		149	46	06	25	208	1968	003	10308	4151	1	33	2	2		X2	0	3		0269

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	33	S11	150	083	078	7	47	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0812	3309	2578	0022270	0000	14809								
208		OBS	0000	0812	33089	2578			14809								
		STD	0010	0760	3299	2578	0022303	0022	14789								
		OBS	0010	0760	32990	2578			14789								
003		OBS	0015	0592	32725	2579			14720								
		STD	0020	0595	3275	2581	0022039	0044	14722								
		OBS	0020	0595	32750	2581			14722								
		OBS	0025	0598	32790	2583			14725								
		STD	0030	0614	3300	2598	0020403	0065	14735								
		OBS	0030	0614	33000	2598			14735								
		OBS	0035	0700	33280	2609			14774								
		OBS	0040	0500	33000	2611			14690								
		OBS	0041	0644	33300	2618			14753								
		OBS	0045	0562	33175	2618			14719								
		STD	0050	0752	3395	2654	0015114	0101	14805								
		OBS	0050	0752	33950	2654			14805								
		STD	0075	0941	3490	2699	0010902	0133	14893								
		OBS	0075	0941	34900	2699			14893								
		STD	0100	0794	3465	2703	0010580	0160	14839								
		OBS	0100	0794	34650	2703			14839								
		OBS	0108	0805	34710	2706			14845								
		OBS	0115	0748	34630	2708			14823								
		STD	0125	0799	3478	2712	0009732	0186	14846								
		OBS	0125	0799	34780	2712			14846								
		OBS	0148	0681	34585	2714			14802								
		STD	0150	0695	3470	2721	0008913	0209	14809								
		OBS	0150	0695	34700	2721			14809								
		OBS	0161	0791	34900	2723			14851								
		OBS	0185	0674	34700	2724			14807								
		STD	0200	0720	3482	2727	0008445	0252	14829								
		OBS	0200	0720	34820	2727			14829								
		OBS	0209	0734	34903	2731			14837								
		STD	0250	0648	3480	2736	0007639	0292	14808								
		OBS	0250	0646	34805	2736			14808								
		OBS	0255	0600	34729	2736			14789								
		STD	0300	0559	3474	2742	0007042	0329	14780								
		OBS	0300	0559	34745	2742			14780								
		OBS	0325	0514	34772	2750			14766								
		OBS	0339	0516	34810	2753			14770								
		OBS	0355	0479	34780	2755			14757								
		STD	0400	0518	3490	2760	0005518	0392	14782								
		OBS	0400	0518	34900	2760			14782								
		OBS	0411	0525	34920	2760			14787								
		OBS	0420	0514	34905	2760			14784								
		OBS	0430	0525	34960	2764			14791								
		STD	0500	0513	3498	2767	0004980	0444	14798								
		OBS	0500	0513	34980	2767			14798								
		STD	0600	0472	3496	2770	0004748	0493	14797								
		OBS	0600	0472	34960	2770			14797								
		OBS	0619	0473	34978	2771			14801								
		OBS	0641	0485	35002	2772			14810								
		OBS	0658	0469	34960	2770			14805								
		OBS	0670	0477	35003	2773			14811								
		STD	0700	0467	3500	2773	0004529	0539	14812								
		STD	0800	0450	3499	2775	0004473	0584	14821								
		OBS	0800	0450	34990	2775			14821								
		OBS	0887	0455	35007	2775			14838								
		STD	0900	0450	3500	2775	0004498	0629	14838								
		OBS	0900	0450	35001	2775			14838								
		STD	1000	0421	3498	2777	0004391	0674	14843								
		OBS	1000	0421	34980	2777			14843								
		STD	1100	0418	3498	2778	0004427	0718	14858								
		OBS	1100	0418	34983	2778			14858								
		STD	1200	0407	3498	2778	0004403	0762	14870								
		OBS	1200	0407	34980	2778			14870								
		STD	1300	0395	3497	2779	0004406	0806	14882								
		OBS	1300	0395	34972	2779			14882								
		STD	1400	0389	3497	2780	0004432	0850	14896								
		OBS	1400	0389	34970	2780			14896								
		STD	1500	0385	3498	2781	0004391	0894	14911								
		OBS	1500	0385	34980	2781			14911								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATA INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4415 N	04712 W		149	47	06	25	236	1968	003	10309	4169	1	36	2	2		X2	0	3		0270

WATER COLOR CODE	WATER TRANS. ml	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	33	S11	150	094	089	7	41	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0831	3308	2574	0022596	0000	14816								
236		OBS	0000	0831	33081	2574			14816								
		STD	0010	0580	3308	2608	0019382	0021	14719								
		OBS	0010	0580	33080	2608			14719								
		STD	0020	0490	3315	2624	0017868	0039	14685								
003		OBS	0020	0490	33150	2624			14685								
		OBS	0025	0445	33300	2641			14669								
		STD	0030	0439	3340	2650	0015467	0056	14668								
		OBS	0030	0439	33400	2650			14668								
		OBS	0036	0341	33440	2663			14628								
		STD	0050	0435	3390	2690	0011687	0083	14677								
		OBS	0050	0435	33900	2690			14677								
		OBS	0057	0461	33950	2691			14689								
		OBS	0062	0242	33960	2713			14597								
		STD	0075	0491	3428	2714	0009454	0109	14709								
		OBS	0075	0491	34280	2714			14709								
		OBS	0083	0438	34220	2715			14688								
		OBS	0093	0500	34308	2715			14716								
		STD	0100	0484	3428	2715	0009372	0133	14710								
		OBS	0100	0484	34285	2715			14710								
		OBS	0111	0373	34160	2717			14664								
		OBS	0120	0442	34350	2725			14697								
		STD	0125	0436	3434	2725	0008428	0155	14695								
		OBS	0125	0436	34345	2725			14695								
		OBS	0133	0421	34325	2725			14690								
		STD	0150	0520	3448	2726	0008375	0176	14736								
		OBS	0150	0520	34480	2726			14736								
		OBS	0162	0492	34585	2738			14728								
		STD	0200	0441	3454	2740	0007064	0215	14713								
		OBS	0200	0441	34545	2740			14713								
		OBS	0221	0449	34578	2742			14720								
		OBS	0235	0507	34710	2746			14748								
		OBS	0242	0471	34660	2746			14733								
		STD	0250	0505	3480	2753	0005930	0247	14751								
		OBS	0250	0505	34800	2753			14751								
		STD	0300	0469	3483	2760	0005361	0276	14744								
		OBS	0300	0469	34828	2760			14744								
		STD	0400	0498	3496	2767	0004827	0326	14775								
		OBS	0400	0498	34960	2767			14775								
		STD	0500	0449	3491	2768	0004725	0374	14770								
		OBS	0500	0449	34912	2768			14770								
		OBS	0567	0449	34942	2771			14782								
		STD	0600	0429	3492	2771	0004543	0421	14779								
		OBS	0600	0429	34919	2771			14779								
		OBS	0683	0424	34960	2775			14791								
		STD	0700	0443	3499	2775	0004302	0465	14802								
		OBS	0700	0443	34988	2775			14802								
		OBS	0734	0411	34946	2775			14794								
		OBS	0757	0438	34998	2777			14809								
		STD	0800	0441	3500	2777	0004278	0508	14818								
		OBS	0800	0441	35002	2777			14818								
		STD	0900	0430	3499	2777	0004348	0551	14830								
		OBS	0900	0430	34988	2777			14830								
		STD	1000	0414	3498	2778	0004312	0594	14840								
		OBS	1000	0414	34979	2778			14840								
		STD	1100	0410	3498	2778	0004335	0637	14855								
		OBS	1100	0410	34982	2778			14855								
		STD	1200	0403	3498	2779	0004348	0681	14869								
		OBS	1200	0403	34981	2779			14869								
		STD	1300	0394	3498	2780	0004341	0724	14882								
		OBS	1300	0394	34979	2780			14882								
		STD	1400	0385	3497	2780	0004348	0768	14894								
		OBS	1400	0385	34975	2780			14894								
		STD	1500	0380	3498	2781	0004347	0811	14909								
		OBS	1500	0380	34977	2781			14909								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	44190N	047330W		149	47	06	26	016	1968	003	10310	3968	1	35	2	3		X2	0	3		0271

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	50	33	S10	260	089	078	7	50	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	ΣΔD DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0759	3301	2579	0022125	0000	14787								
016		OBS	0000	0759	33010	2579			14787								
		STD	0010	0609	3308	2605	0019718	0020	14731								
		OBS	0010	0609	33080	2605			14731								
003		OBS	0013	0576	33140	2614			14719								
		OBS	0017	0613	33200	2614			14735								
		STD	0020	0539	3311	2615	0018721	0040	14704								
		OBS	0025	0442	33000	2618			14663								
		OBS	0028	0400	32965	2619			14646								
		STD	0030	0453	3321	2633	0017069	0058	14672								
		OBS	0042	0572	34000	2682			14733								
		STD	0050	0460	3390	2687	0011952	0087	14687								
		OBS	0050	0460	33900	2687			14687								
		OBS	0053	0413	33840	2687			14667								
		OBS	0063	0318P	34250	2729P											
		OBS	0072	0481	34200	2708			14703								
		STD	0075	0572	3443	2716	0009261	0113	14744								
		OBS	0075	0572	34430	2716			14744								
		OBS	0086	0556	34400	2716			14739								
		STD	0100	0608	3450	2717	0009212	0136	14764								
		OBS	0100	0608	34500	2717			14764								
		OBS	0122	0523	34400	2719			14732								
		OBS	0123	0555	34460	2720			14746								
		STD	0125	0530	3442	2720	0008907	0159	14735								
		OBS	0125	0530	34420	2720			14735								
		OBS	0131	0451	34340	2723			14703								
		STD	0150	0578	3470	2736	0007422	0179	14763								
		OBS	0150	0578	34700	2736			14763								
		OBS	0160	0572	34690	2736			14762								
		OBS	0164	0590	34740	2738			14770								
		OBS	0180	0498	34605	2739			14734								
		OBS	0192	0529	34765	2748			14750								
		STD	0200	0475	3470	2749	0006279	0214	14729								
		OBS	0200	0475	34700	2749			14729								
		OBS	0204	0485	34740	2751			14734								
		OBS	0212	0466	34790	2757			14728								
		OBS	0230	0520	34860	2756			14754								
		STD	0250	0508	3484	2756	0005662	0243	14752								
		OBS	0250	0508	34840	2756			14752								
		OBS	0282	0479	34835	2759			14746								
		STD	0300	0509	3492	2762	0005139	0270	14762								
		OBS	0300	0509	34920	2762			14762								
		OBS	0312	0485	34890	2763			14754								
		OBS	0333	0491	34918	2764			14760								
		OBS	0362	0470	34898	2765			14756								
		STD	0400	0470	3492	2767	0004765	0320	14763								
		OBS	0400	0470	34925	2767			14763								
		OBS	0422	0468	34920	2767			14765								
		OBS	0451	0444	34918	2770			14760								
		OBS	0480	0448	34940	2771			14767								
		STD	0500	0474	3499	2772	0004433	0366	14782								
		OBS	0500	0474	34990	2772			14782								
		OBS	0522	0453	34962	2772			14776								
		OBS	0550	0461	34980	2773			14784								
		STD	0600	0458	3499	2774	0004353	0410	14792								
		OBS	0600	0458	34990	2774			14792								
		STD	0700	0439	3498	2775	0004313	0453	14800								
		OBS	0700	0439	34979	2775			14800								
		STD	0800	0432	3498	2776	0004332	0496	14814								
		OBS	0800	0432	34979	2776			14814								
		STD	0900	0420	3498	2777	0004282	0539	14826								
		OBS	0900	0420	34980	2777			14826								
		STD	1000	0414	3499	2778	0004241	0582	14840								
		OBS	1000	0414	34989	2778			14840								
		STD	1100	0406	3498	2779	0004298	0625	14853								
		OBS	1100	0406	34980	2779			14853								
		STD	1200	0395	3497	2779	0004307	0668	14865								
		OBS	1200	0395	34973	2779			14865								
		STD	1300	0389	3497	2779	0004361	0711	14879								
		OBS	1300	0389	34968	2779			14879								
		STD	1400	0385	3497	2780	0004392	0755	14894								
		OBS	1400	0385	34969	2780			14894								
		STD	1500	0379	3497	2780	0004396	0799	14909								
		OBS	1500	0379	34969	2780			14909								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44220N	047560W		149	47	06	26	037	1968	003	10311	3777	1	32	1	2		X4	0	3		0272

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	34	S02	260	094	083	7	46	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ△D DYN. M. x 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCC
		STD	0000	0776	3306	2581	0021953	0000	14795								
037		OBS	0000	0776	33065	2581			14795								
		STD	0010	0580	3304	2605	0019681	0020	14718								
		OBS	0010	0580	33040	2605			14718								
003		OBS	0015	0665	33500	2631			14759								
		STD	0020	0535	3329	2631	0017264	0039	14705								
		OBS	0020	0535	33295	2631			14705								
		OBS	0025	0601	33390	2630			14734								
		STD	0030	0575	3358	2648	0015603	0055	14727								
		OBS	0030	0575	33580	2648			14727								
		OBS	0039	0524	33652	2660			14708								
		STD	0050	0616	3420	2692	0011483	0082	14755								
		OBS	0050	0616	34200	2692			14755								
		OBS	0069	0639	34400	2705			14770								
		STD	0075	0631	3445	2710	0009795	0109	14768								
		OBS	0075	0631	34455	2710			14768								
		OBS	0084	0673	34608	2717			14789								
		OBS	0095	0645	34565	2717			14779								
		STD	0100	0671	3465	2720	0008910	0132	14791								
		OBS	0100	0671	34648	2720			14791								
		OBS	0110	0695	34680	2719			14802								
		STD	0125	0590	3460	2727	0008276	0154	14762								
		OBS	0125	0590	34600	2727			14762								
		OBS	0139	0534	34500	2726			14740								
		OBS	0145	0595	34740	2737			14769								
		STD	0150	0540	3470	2741	0006958	0173	14747								
		OBS	0150	0540	34700	2741			14747								
		OBS	0165	0593	34800	2742			14772								
		OBS	0187	0580	34780	2743			14771								
		STD	0200	0534	3472	2743	0006802	0207	14753								
		OBS	0200	0534	34720	2743			14753								
		OBS	0210	0529	34710	2743			14753								
		OBS	0214	0540	34760	2746			14759								
		OBS	0231	0499	34718	2747			14744								
		STD	0250	0564	3491	2755	0005812	0239	14776								
		OBS	0250	0564	34910	2755			14776								
		OBS	0260	0595	34975	2756			14791								
		STD	0300	0535	3491	2758	0005525	0267	14773								
		OBS	0300	0535	34910	2758			14773								
		OBS	0342	0451	34825	2761			14744								
		STD	0400	0487	3495	2767	0004772	0319	14770								
		OBS	0400	0487	34950	2767			14770								
		OBS	0420	0460	34910	2767			14762								
		OBS	0472	0452	34923	2769			14767								
		OBS	0489	0459	34942	2770			14773								
		STD	0500	0457	3496	2771	0004475	0365	14774								
		OBS	0500	0457	34958	2771			14774								
		OBS	0530	0479	35015	2773			14789								
		STD	0600	0431	3494	2773	0004421	0409	14780								
		OBS	0600	0431	34938	2773			14780								
		STD	0700	0412	3493	2774	0004374	0453	14788								
		OBS	0700	0412	34928	2774			14788								
		STD	0800	0411	3494	2775	0004336	0497	14805								
		OBS	0800	0411	34945	2775			14805								
		STD	0900	0395	3493	2776	0004326	0540	14814								
		OBS	0900	0395	34933	2776			14814								
		OBS	0988	0389	34940	2777			14827								
		STD	1000	0397	3495	2777	0004316	0583	14832								
		OBS	1000	0397	34950	2777			14832								
		OBS	1060	0398	34950	2777			14843								
		STD	1100	0384	3495	2778	0004249	0626	14843								
		OBS	1100	0384	34950	2778			14843								
		STD	1200	0389	3495	2778	0004405	0669	14862								
		OBS	1200	0389	34950	2778			14862								
		STD	1300	0381	3495	2779	0004416	0714	14876								
		OBS	1300	0381	34947	2779			14876								
		STD	1400	0373	3494	2779	0004422	0758	14889								
		OBS	1400	0373	34943	2779			14889								
		STD	1500	0371	3495	2780	0004420	0802	14905								
		OBS	1500	0371	34951	2780			14905								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44250N	048080W		149	48	06	26	051	1968	003	10312	3658	1	33	1	2		X4	0	3		0273

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	00	S00	150	083	078	7	31	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0726	3300	2583	0021762	0000	14774								
051		OBS	0000	0726	33000	2583			14774								
		STD	0010	0525	3308	2615	0018756	0020	14696								
		OBS	0010	0525	33080	2615			14696								
		STD	0020	0394	3315	2634	0016904	0038	14644								
003		OBS	0020	0394	33150	2634			14644								
		OBS	0025	0380	33166	2637			14640								
		STD	0030	0240	3319	2652	0015280	0054	14580								
		OBS	0030	0240	33191	2652			14580								
		STD	0050	0131	3351	2685	0012099	0081	14540								
		OBS	0050	0131	33510	2685			14540								
		OBS	0056	0113	33600	2693			14534								
		OBS	0066	0131	33740	2703			14546								
		STD	0075	0105	3390	2718	0008973	0107	14538								
		OBS	0075	0105	33900	2718			14538								
		OBS	0084	0137	34040	2727			14555								
		OBS	0085	0116	34200	2741			14548								
		STD	0100	0299	3438	2741	0006827	0127	14634								
		OBS	0100	0299	34380	2741			14634								
		STD	0125	0341	3443	2742	0006812	0144	14657								
		OBS	0125	0341	34435	2742			14657								
		STD	0150	0350	3451	2747	0006348	0161	14665								
		OBS	0150	0350	34510	2747			14665								
		STD	0200	0461	3480	2758	0005372	0190	14724								
		OBS	0200	0461	34800	2758			14724								
		OBS	0225	0486	34840	2759			14739								
		OBS	0235	0512	34930	2763			14753								
		STD	0250	0518	3494	2763	0005048	0216	14758								
		OBS	0250	0518	34938	2763			14758								
		STD	0300	0486	3492	2765	0004871	0241	14753								
		OBS	0300	0486	34920	2765			14753								
		STD	0400	0459	3493	2768	0004629	0288	14758								
		OBS	0400	0459	34926	2768			14758								
		STD	0500	0449	3494	2771	0004520	0334	14771								
		OBS	0500	0449	34940	2771			14771								
		STD	0600	0421	3495	2775	0004210	0378	14776								
		OBS	0600	0421	34951	2775			14776								
		STD	0700	0414	3494	2774	0004315	0420	14789								
		OBS	0700	0414	34939	2774			14789								
		STD	0800	0409	3494	2775	0004341	0464	14804								
		OBS	0800	0409	34941	2775			14804								
		STD	0900	0402	3495	2776	0004305	0507	14818								
		OBS	0900	0402	34948	2776			14818								
		STD	1000	0385	3492	2776	0004384	0550	14827								
		OBS	1000	0385	34922	2776			14827								
		STD	1100	0378	3492	2777	0004401	0594	14841								
		OBS	1100	0378	34920	2777			14841								
		STD	1200	0378	3494	2778	0004346	0638	14858								
		OBS	1200	0378	34939	2778			14858								
		STD	1300	0374	3493	2778	0004438	0682	14872								
		OBS	1300	0374	34932	2778			14872								
		STD	1400	0370	3493	2778	0004465	0726	14888								
		OBS	1400	0370	34932	2778			14888								
		STD	1500	0365	3494	2780	0004425	0771	14902								
		OBS	1500	0365	34940	2780			14902								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	44270N	048200W		149	48	06	26	065	1968	003	10313	3200	1	32	1	4		X4	0	3		0274

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	28	S08	150	078	067	7	43	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ O DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCO
		STD	0000	0643	3302	2596	0020539	0000	14742								
065		OBS	0000	0643	33023	2596			14742								
		STD	0010	0415	3315	2632	0017096	0018	14652								
		OBS	0010	0415	33150	2632			14652								
		STD	0020	0300	3327	2653	0015162	0034	14606								
003		OBS	0020	0300	33270	2653			14606								
		OBS	0025	0279	33360	2662			14599								
		STD	0030	0254	3364	2686	0011989	0048	14593								
		OBS	0030	0254	33640	2686			14593								
		STD	0050	0500	3385	2679	0012752	0073	14703								
		OBS	0050	0500	33850	2679			14703								
		OBS	0054	0577	34100	2689			14738								
		OBS	0058	0449	33973	2694			14685								
		OBS	0061	0539	34120	2695			14724								
		STD	0075	0335	3413	2718	0009010	0100	14642								
		OBS	0075	0335	34130	2718			14642								
		OBS	0080	0406	34240	2720			14674								
		OBS	0085	0355	34220	2723			14653								
		STD	0100	0491	3440	2724	0008552	0122	14715								
		OBS	0100	0491	34405	2724			14715								
		OBS	0118	0301	34190	2726			14635								
		STD	0125	0380	3456	2748	0006265	0140	14675								
		OBS	0125	0380	34558	2748			14675								
		STD	0150	0398	3465	2753	0005790	0156	14688								
		OBS	0150	0398	34648	2753			14688								
		OBS	0175	0501	34800	2754			14737								
		OBS	0195	0398	34670	2755			14695								
		STD	0200	0444	3480	2760	0005184	0183	14717								
		OBS	0200	0444	34800	2760			14717								
		OBS	0219	0499	34912	2763			14745								
		OBS	0236	0481	34905	2764			14740								
		STD	0250	0491	3492	2764	0004870	0208	14747								
		OBS	0250	0491	34920	2764			14747								
		OBS	0275	0490	34917	2764			14750								
		STD	0300	0465	3489	2765	0004856	0232	14744								
		OBS	0300	0465	34890	2765			14744								
		OBS	0318	0450	34899	2767			14740								
		OBS	0335	0461	34920	2768			14748								
		OBS	0378	0457	34920	2768			14754								
		STD	0400	0468	3494	2769	0004592	0280	14762								
		OBS	0400	0468	34945	2769			14762								
		OBS	0418	0452	34920	2769			14758								
		STD	0500	0445	3495	2772	0004398	0325	14769								
		OBS	0500	0445	34950	2772			14769								
		OBS	0553	0440	34940	2772			14776								
		OBS	0576	0419	34938	2774			14771								
		STD	0600	0421	3494	2774	0004290	0368	14776								
		OBS	0600	0421	34941	2774			14776								
		STD	0700	0405	3492	2774	0004318	0411	14785								
		OBS	0700	0405	34925	2774			14785								
		OBS	0735	0420	34960	2775			14798								
		STD	0800	0418	3496	2776	0004305	0454	14808								
		OBS	0800	0418	34961	2776			14808								
		STD	0900	0391	3493	2776	0004290	0497	14813								
		OBS	0900	0391	34932	2776			14813								
		STD	1000	0383	3493	2777	0004300	0540	14826								
		OBS	1000	0383	34930	2777			14826								
		STD	1100	0375	3493	2777	0004323	0583	14839								
		OBS	1100	0375	34926	2777			14839								
		STD	1200	0373	3493	2778	0004314	0626	14855								
		OBS	1200	0373	34935	2778			14855								
		STD	1300	0369	3494	2779	0004316	0670	14871								
		OBS	1300	0369	34940	2779			14871								
		STD	1400	0366	3494	2779	0004355	0713	14886								
		OBS	1400	0366	34940	2779			14886								
		STD	1500	0360	3494	2780	0004328	0756	14900								
		OBS	1500	0360	34945	2780			14900								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44300N	048360W		149	48	06	26	080	1968	003	10314	2140	1	24	0	2		X4	0	3		0275

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	20	S10	140	061	056	7	42	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	
		STD	0000	0544	3293	2601	0020086	0000	14701								
080		OBS	0000	0544	32930	2601			14701								
		STD	0010	0302	3303	2633	0017012	0018	14602								
		OBS	0010	0302	33026	2633			14602								
		STD	0020	0200	3344	2675	0013094	0033	14565								
003		OBS	0020	0200	33440	2675			14565								
		OBS	0025	0240	33679	2691			14586								
		STD	0030	0264	3388	2705	0010255	0045	14600								
		OBS	0030	0264	33880	2705			14600								
		OBS	0042	0436	34198	2713			14680								
		STD	0050	0395	3428	2724	0008431	0064	14665								
		OBS	0050	0395	34280	2724			14665								
		OBS	0061	0419	34320	2725			14677								
		OBS	0064	0483	34410	2725			14706								
		OBS	0069	0401	34320	2727			14671								
		STD	0075	0497	3448	2729	0008029	0084	14714								
		OBS	0075	0497	34480	2729			14714								
		OBS	0081	0525	34525	2729			14727								
		OBS	0091	0452	34460	2732			14698								
		STD	0100	0460	3448	2733	0007652	0104	14703								
		OBS	0100	0460	34480	2733			14703								
		OBS	0113	0410	34415	2733			14683								
		OBS	0121	0462	34487	2733			14707								
		STD	0125	0416	3445	2735	0007439	0123	14688								
		OBS	0125	0416	34450	2735			14688								
		STD	0150	0418	3460	2747	0006356	0140	14695								
		OBS	0150	0418	34600	2747			14695								
		OBS	0186	0495	34780	2753			14736								
		OBS	0192	0492	34777	2753			14735								
		STD	0200	0481	3478	2755	0005724	0170	14732								
		OBS	0200	0481	34783	2755			14732								
		OBS	0217	0469	34781	2756			14730								
		OBS	0227	0481	34830	2758			14737								
		OBS	0241	0429	34750	2758			14717								
		STD	0250	0436	3477	2759	0005358	0198	14722								
		OBS	0250	0436	34772	2759			14722								
		STD	0300	0444	3485	2765	0004876	0223	14734								
		OBS	0300	0444	34855	2765			14734								
		OBS	0332	0448	34891	2767			14742								
		OBS	0340	0461	34920	2768			14749								
		STD	0400	0437	3492	2770	0004419	0270	14749								
		OBS	0400	0437	34920	2770			14749								
		STD	0500	0415	3492	2773	0004273	0313	14756								
		OBS	0500	0415	34920	2773			14756								
		STD	0600	0405	3492	2774	0004258	0356	14768								
		STD	0700	0399	3492	2775	0004290	0399	14783								
		OBS	0700	0399	34920	2775			14783								
		OBS	0740	0398	34922	2775			14789								
		OBS	0758	0419	34962	2776			14801								
		STD	0800	0409	3495	2776	0004278	0441	14804								
		OBS	0800	0409	34950	2776			14804								
		OBS	0851	0388	34920	2776			14803								
		STD	0900	0380	3492	2776	0004249	0484	14808								
		OBS	0900	0380	34920	2776			14808								
		STD	1000	0378	3492	2777	0004296	0527	14824								
		OBS	1000	0378	34922	2777			14824								
		STD	1100	0375	3493	2778	0004278	0570	14839								
		OBS	1100	0375	34932	2778			14839								
		STD	1200	0370	3493	2778	0004297	0613	14854								
		OBS	1200	0370	34932	2778			14854								
		STD	1300	0367	3494	2779	0004301	0656	14870								
		OBS	1300	0367	34938	2779			14870								
		STD	1400	0364	3494	2780	0004339	0699	14885								
		OBS	1400	0364	34939	2780			14885								
		STD	1500	0361	3494	2780	0004358	0742	14901								
		OBS	1500	0361	34943	2780			14901								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44330N	048540W		149	48	06	26	098	1968	003	10315	0578	1	17	1	2		X6	0	3		0276

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	17	S13	120	056	056	7	19	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	CODE
		STD	0000	0411	3259	2588	0021282	0000	14641								
098		OBS	0000	0411	32589	2588			14641								
		OBS	0005	0050	32500	2609			14482								
		STD	0010	-0100	3280	2639	0016421	0018	14418								
		OBS	0010	-0100	32800	2639			14418								
		STD	0020	-0120	3314	2667	0013745	0033	14415								
		OBS	0020	-0120	33140	2667			14415								
		OBS	0025	-0113	33201	2672			14420								
		STD	0030	-0071	3330	2679	0012676	0047	14441								
		OBS	0030	-0071	33300	2679			14441								
		OBS	0040	-0055	33320	2680			14451								
		STD	0050	-0054	3332	2680	0012561	0072	14453								
		OBS	0050	-0054	33322	2680			14453								
		STD	0075	-0008	3351	2693	0011324	0102	14481								
		OBS	0075	-0008	33510	2693			14481								
		STD	0100	0060	3375	2709	0009839	0128	14519								
		OBS	0100	0060	33750	2709			14519								
		STD	0125	0120	3405	2729	0007956	0150	14555								
		OBS	0125	0120	34048	2729			14555								
		STD	0150	0132	3413	2735	0007398	0170	14565								
		OBS	0150	0132	34133	2735			14565								
		STD	0200	0177	3432	2747	0006308	0204	14596								
		OBS	0200	0177	34322	2747			14596								
		STD	0250	0258	3447	2752	0005884	0234	14642								
		OBS	0250	0258	34469	2752			14642								
		STD	0300	0300	3462	2760	0005164	0262	14670								
		OBS	0300	0300	34620	2760			14670								
		OBS	0343	0368	34740	2763			14708								
		STD	0400	0395	3482	2767	0004701	0311	14730								
		OBS	0400	0395	34821	2767			14730								
		STD	0500	0411	3484	2767	0004805	0359	14754								
		OBS	0500	0411	34843	2767			14754								
		OBS	0550	0420	34870	2768			14766								

REFERENCE CTRY CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	44315N	049080W		149	49	06	26	109	1968	003	10316	0073	1	17	2	2		X6	0	3		0277

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	17	S20	100	061	061	6	09	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	CODE
		STD	0000	0539	3261	2576	0022433	0000	14694								
109		OBS	0000	0539	32609	2576			14694								
		OBS	0005	0535	32670	2581			14694								
		STD	0010	0490	3261	2582	0021898	0022	14676								
001		OBS	0010	0490	32612	2582			14676								
		STD	0020	0229	3274	2616	0018606	0042	14568								
		OBS	0020	0229	32740	2616			14568								
		OBS	0025	0050	32900	2641			14491								
		STD	0030	-0008	3299	2651	0015313	0059	14466								
		OBS	0030	-0008	32989	2651			14466								
		OBS	0045	-0055	33131	2664			14449								
		STD	0050	-0056	3315	2666	0013889	0088	14450								
		OBS	0050	-0056	33148	2666			14450								
		OBS	0054	-0058	33151	2666			14449								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4300N	05200W		150	30	06	26	213	1968	003	10317	0093	1	26	5	2		X4	0	3		0278

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	28	S12	100	110	106	2	10	

MESSENGR TIME OF T HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOD
		STD	0000	0826	3290	2561	0023874	0000	14812								
213		OBS	0000	0826	32900	2561			14812								
		STD	0010	0846	3303	2569	0023166	0023	14823								
		OBS	0010	0846	33035	2569			14823								
001		OBS	0018	0842	33040	2570			14823								
		STD	0020	0822	3302	2571	0022955	0046	14815								
		OBS	0020	0822	33020	2571			14815								
		OBS	0025	0658	33000	2592			14752								
		STD	0030	0450	3290	2609	0019341	0067	14666								
		OBS	0030	0450	32900	2609			14666								
		OBS	0035	0330	33250	2649			14621								
		OBS	0048	0537	33670	2660			14715								
		STD	0050	0517	3365	2661	0014436	0101	14707								
		OBS	0050	0517	33650	2661			14707								
		OBS	0068	0510	33665	2663			14708								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4300 N	05020 W		150	30	06	26	224	1968	003	10318	0108	1	21	8	4		X4	0	3		0279

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	29	S11	102	106	100	5	12	

MESSENGR TIME OF T HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOD
		STD	0000	0836	3283	2554	0024536	0000	14815								
224		OBS	0000	0836	32830	2554			14815								
		STD	0010	0650	3258	2560	0023950	0024	14741								
		OBS	0010	0650	32580	2560			14741								
		STD	0020	0473	3337	2644	0016039	0044	14680								
001		OBS	0020	0473	33370	2644			14680								
		OBS	0025	0459	33450	2652			14677								
		STD	0030	0489	3367	2666	0013960	0059	14693								
		OBS	0030	0489	33670	2666			14693								
		OBS	0040	0520	33740	2668			14708								
		STD	0050	0632	3393	2669	0013699	0086	14758								
		OBS	0050	0632	33930	2669			14758								
		OBS	0060	0650	33980	2670			14767								
		OBS	0065	0610	33950	2673			14752								
		OBS	0070	0656	34120	2681			14773								
		STD	0075	0684	3425	2687	0012007	0119	14787								
		OBS	0075	0684	34250	2687			14787								
		OBS	0082	0717	34360	2691			14802								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
318039		EV	4250 N	05020 W		150	20	06	26	235	1968	003	10319	0768	1	21	5	4		04	0	3		0280

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	28	S12	105	111	106	1	34	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	S.O.O.
		STD	0000	0856	3271	2542	0025679	0000	14821								
235		OBS	0000	0856	32715	2542			14821								
		OBS	0005	0519	33040	2612			14693								
		STD	0010	0530	3311	2617	0018593	0022	14699								
001		OBS	0010	0530	33110	2617			14699								
		OBS	0012	0542	33122	2616			14704								
		STD	0020	0459	3317	2630	0017369	0040	14672								
		OBS	0020	0459	33173	2630			14672								
		OBS	0025	0460	33330	2642			14675								
		STD	0030	0500	3354	2654	0015055	0056	14696								
		OBS	0030	0500	33540	2654			14696								
		OBS	0034	0538	33590	2654			14713								
		OBS	0045	0544	33620	2655			14717								
		STD	0050	0759	3431	2681	0012529	0083	14813								
		OBS	0050	0759	34310	2681			14813								
		STD	0075	0592	3404	2683	0012416	0115	14747								
		OBS	0075	0592	34040	2683			14747								
		OBS	0080	0578	34160	2694			14744								
		STD	0100	0800	3470	2706	0010292	0143	14842								
		OBS	0100	0800	34700	2706			14842								
		OBS	0115	0967	35040	2706			14911								
		STD	0125	0918	3502	2712	0009755	0168	14894								
		OBS	0125	0918	35020	2712			14894								
		OBS	0144	0865	34935	2714			14877								
		STD	0150	0783	3480	2716	0009402	0192	14845								
		OBS	0150	0783	34800	2716			14845								
		OBS	0165	0669	34680	2723			14801								
		OBS	0185	0667	34718	2726			14804								
		STD	0200	0652	3475	2731	0008063	0236	14801								
		OBS	0200	0652	34749	2731			14801								
		OBS	0215	0667	34769	2730			14810								
		STD	0250	0618	3476	2736	0007606	0275	14796								
		OBS	0250	0618	34760	2736			14796								
		OBS	0255	0594	34730	2737			14787								
		OBS	0270	0659	34885	2741			14817								
		STD	0300	0599	3489	2749	0006468	0310	14798								
		OBS	0300	0599	34890	2749			14798								
		OBS	0327	0525	34931	2761			14773								
		OBS	0367	0521	34940	2762			14778								
		STD	0400	0502	3495	2765	0004965	0367	14776								
		OBS	0400	0502	34948	2765			14776								
		OBS	0449	0492	34945	2766			14780								
		STD	0500	0468	3495	2769	0004659	0415	14779								
		OBS	0500	0468	34950	2769			14779								
		STD	0600	0453	3494	2770	0004676	0462	14789								
		OBS	0600	0453	34939	2770			14789								
		OBS	0660	0453	34940	2770			14799								
		STD	0700	0445	3494	2772	0004644	0509	14802								
		OBS	0700	0445	34945	2772			14802								
		OBS	0768	0439	34963	2774			14811								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4240 N	05020 W		150	20	06	27	009	1968	003	10320	2103	1	21	5	3		02	0	3		0281

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	28	S10	119	111	106	6	39	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ Δ D. DYN. M. X 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0858	3472	2542	0025634	0000	14822								
009		OBS	0000	0858	32725	2542			14822								
		STD	0010	0318	3240	2582	0021876	0023	14600								
		OBS	0010	0318	32400	2582			14600								
		STD	0020	0680	3296	2586	0021499	0045	14759								
003		OBS	0020	0680	32960	2586			14759								
		OBS	0025	0905	33550	2600			14854								
		STD	0030	0980	3430	2646	0015865	0064	14893								
		OBS	0030	0980	34300	2646			14893								
		STD	0050	1266	3540	2679	0012806	0092	15010								
		OBS	0050	1266	35400	2679			15010								
		OBS	0059	1290	35600	2690			15023								
		STD	0075	1233	3546	2690	0011811	0123	15004								
		OBS	0075	1233	35460	2690			15004								
		STD	0100	1077	3511	2692	0011649	0152	14949								
		OBS	0100	1077	35110	2692			14949								
		OBS	0117	1050	35120	2698			14943								
		STD	0125	0870	3473	2697	0011156	0181	14873								
		OBS	0125	0870	34730	2697			14873								
		OBS	0131	0843	34860	2712			14865								
		STD	0150	0679	3460	2715	0009449	0207	14802								
		OBS	0150	0679	34600	2715			14802								
		OBS	0163	0712	34660	2716			14817								
		STD	0200	0585	3446	2717	0009356	0254	14770								
		OBS	0200	0585	34460	2717			14770								
		OBS	0204	0563	34430	2717			14762								
		OBS	0210	0579	34480	2719			14770								
		OBS	0235	0426	34380	2729			14710								
		STD	0250	0559	3463	2734	0007805	0297	14770								
		OBS	0250	0559	34635	2734			14770								
		OBS	0267	0559	34660	2736			14774								
		OBS	0282	0589	34763	2740			14790								
		STD	0300	0583	3479	2743	0007014	0334	14790								
		OBS	0300	0583	34789	2743			14790								
		OBS	0370	0510	34897	2760			14774								
		STD	0400	0515	3492	2762	0005318	0395	14781								
		OBS	0400	0515	34922	2762			14781								
		OBS	0416	0522	34950	2763			14787								
		OBS	0453	0509	34956	2765			14788								
		STD	0500	0505	3498	2768	0004873	0446	14794								
		OBS	0500	0505	34982	2768			14794								
		STD	0600	0468	3496	2770	0004671	0494	14795								
		OBS	0600	0468	34964	2770			14795								
		STD	0700	0451	3497	2773	0004529	0540	14805								
		OBS	0700	0451	34970	2773			14805								
		STD	0800	0436	3498	2775	0004402	0585	14815								
		OBS	0800	0436	34977	2775			14815								
		STD	0900	0431	3500	2777	0004288	0628	14830								
		OBS	0900	0431	34998	2777			14830								
		OBS	0943	0432	34998	2777			14838								
		STD	1000	0409	3497	2777	0004318	0671	14837								
		OBS	1000	0409	34970	2777			14837								
		OBS	1007	0396	34945	2777			14833								
		STD	1100	0395	3495	2777	0004411	0715	14848								
		OBS	1100	0395	34947	2777			14848								
		STD	1200	0390	3495	2778	0004425	0759	14863								
		OBS	1200	0390	34948	2778			14863								
		STD	1300	0392	3497	2779	0004388	0803	14881								
		OBS	1300	0392	34969	2779			14881								
		STD	1400	0392	3496	2778	0004547	0848	14897								
		OBS	1400	0392	34960	2778			14897								
		OBS	1435	0385	34961	2779			14900								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318039		EV	4230 N	05020 W		150	20	06	27	035	1968	003	10321	2597	1	21	4	3		X2	7	8		0282

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		28	S14	125	117	111	6	13	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	1102	3321	2540	0025851	0000	14918								
035		OBS	0000	1102	33212	2540			14918								
		STD	0010	1102	3321	2540	0025664	0025	14919								
035		OBS	0010	1102	33213	2540			14919								
		STD	0020	0991	3322	2560	0024031	0050	14881								
035		OBS	0025		33240												
		STD	0030	0888	3330	2583	0021834	0073	14846								
		STD	0050	0706	3355	2629	0017478	0113	14782								
035		OBS	0050	0706	33549	2629			14782								
035		OBS	0074	0528	33827	2674			14718								
		STD	0075	0531	3385	2675	0013119	0151	14720								
035		OBS	0099	0592	34351	2707			14755								
		STD	0100	0591	3435	2707	0010101	0180	14755								
		STD	0125	0563	3438	2713	0009557	0204	14748								
		STD	0150	0542	3442	2719	0009068	0228	14744								
035		OBS	0199	0525	34513	2728			14747								
		STD	0200	0527	3452	2728	0008239	0271	14747								
		STD	0250	0580	3466	2733	0007871	0311	14779								
035		OBS	0298	0580	34766	2741			14789								
		STD	0300	0576	3477	2742	0007072	0349	14787								
035		OBS	0398	0419	34885	2770			14741								
		STD	0400	0420	3489	2770	0004483	0406	14741								
		STD	0500	0459	3493	2769	0004728	0452	14775								
035		OBS	0598	0477	34956	2769			14799								
		STD	0600	0477	3496	2769	0004835	0500	14799								
		STD	0700	0465	3497	2771	0004695	0548	14811								
035		OBS	0797	0453	34978	2773			14822								
		STD	0800	0453	3498	2773	0004593	0594	14822								
		STD	0900	0442	3498	2774	0004569	0640	14835								
035		OBS	0998	0429	34978	2776			14846								
		STD	1000	0429													
		STD	1100	0413													
		STD	1200	0394													
035		OBS	1246	0385													

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	039	EV	4210 N	05020 W		150	20	06	27	055	1968	003	10322	3475	1	25	2	2		X2	0	3		0283

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	28	S13	135	122	117	7	32	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-$\times 10^7$	Δ OXYG. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SEC
		STD	0000	1184	3333	2535	0026387	0000	14948								
055		OBS	0000	1184	33332	2535			14948								
		OBS	0001	1213	34140	2592			14969								
003		OBS	0006	1001	34500	2658			14899								
		STD	0010	1070	3480	2669	0013609	0020	14928								
		OBS	0010	1070	34800	2669			14928								
		STD	0020	1230	3530	2678	0012788	0033	14992								
		OBS	0020	1230	35300	2678			14992								
		OBS	0025	1321	35540	2679			15027								
		STD	0030	1321	3554	2679	0012783	0046	15027								
		OBS	0030	1321	35540	2679			15027								
		STD	0050	1314	3556	2682	0012521	0071	15029								
		OBS	0050	1314	35565	2682			15029								
		OBS	0065	1320	35580	2682			15033								
		STD	0075	1305	3554	2682	0012562	0102	15029								
		OBS	0075	1305	35545	2682			15029								
		STD	0100	1229	3544	2689	0011958	0133	15007								
		OBS	0100	1229	35440	2689			15007								
		STD	0125	1215	3544	2692	0011776	0163	15006								
		OBS	0125	1215	35438	2692			15006								
		STD	0150	1202	3544	2695	0011584	0192	15006								
		OBS	0150	1202	35440	2695			15006								
		STD	0200	1106	3528	2700	0011145	0249	14978								
		OBS	0200	1106	35280	2700			14978								
		STD	0250	0885	3499	2715	0009713	0301	14902								
		OBS	0250	0885	34989	2715			14902								
		OBS	0276	0781	34950	2728			14867								
		STD	0300	0812	3507	2733	0008093	0345	14884								
		OBS	0300	0812	35070	2733			14884								
		OBS	0376	0659	34948	2745			14835								
		STD	0400	0552	3488	2754	0006088	0416	14796								
		OBS	0400	0552	34880	2754			14796								
		STD	0500	0500	3496	2766	0004974	0471	14792								
		OBS	0500	0500	34960	2766			14792								
		OBS	0564	0469	34955	2770			14790								
		STD	0600	0469	3496	2770	0004708	0520	14796								
		OBS	0600	0469	34960	2770			14796								
		OBS	0665	0442	3593P	2850P											
		STD	0700	0441	3493	2771	0004709	0567	14800								
		OBS	0700	0441	34929	2771			14800								
		STD	0800	0435	3492	2771	0004773	0614	14814								
		OBS	0800	0435	34925	2771			14814								
		STD	0900	0419	3493	2773	0004644	0661	14824								
		OBS	0900	0419	34930	2773			14824								
		STD	1000	0409	3492	2774	0004664	0708	14837								
		OBS	1000	0409	34923	2774			14837								
		STD	1100	0403	3492	2774	0004688	0755	14851								
		OBS	1100	0403	34922	2774			14851								
		STD	1200	0400	3493	2775	0004683	0802	14867								
		OBS	1200	0400	34930	2775			14867								
		STD	1300	0400	3493	2775	0004774	0849	14883								
		OBS	1300	0400	34930	2775			14883								
		STD	1400	0401	3495	2777	0004744	0896	14901								
		OBS	1400	0401	34949	2777			14901								
		STD	1500	0400	3495	2777	0004796	0944	14917								
		OBS	1500	0400	34952	2777			14917								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR,1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPL	CLOUD CODES AMT		NDDC STATION NUMBER
318039		EV	4150 N	05020 W		150	10	06	27	080	1968	003	10323	4069	1	21	4	3		X2	0	3		0284

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	28	S10	142	156	150	7	36	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ ΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	1390	3400	2545	0025362	0000	15026								
080		OBS	0000	1390	33998	2545			15026								
		OBS	0004	1405	34105	2550			15033								
		STD	0010	1250	3420	2589	0021217	0023	14983								
003		OBS	0010	1250	34200	2589			14983								
		OBS	0011	1169	34330	2615			14957								
		STD	0020	1284	3512	2654	0015123	0041	15008								
		OBS	0020	1284	35120	2654			15008								
		OBS	0022	1328	35410	2667			15027								
		OBS	0025	1325	35410	2668			15026								
		STD	0030	1325	3541	2668	0013814	0055	15027								
		OBS	0030	1325	35410	2668			15027								
		OBS	0041	1312	35415	2671			15025								
		STD	0050	1390	3566	2674	0013323	0083	15055								
		OBS	0050	1390	35660	2674			15055								
		OBS	0055	1405	35700	2673			15061								
		OBS	0063	1319	35475	2674			15031								
		STD	0075	1312	3551	2678	0012969	0115	15031								
		OBS	0075	1312	35508	2678			15031								
		STD	0100	1325	3563	2685	0012399	0147	15041								
		OBS	0100	1325	35630	2685			15041								
		STD	0125	1266	3551	2687	0012212	0178	15024								
		OBS	0125	1266	35509	2687			15024								
		STD	0150	1235	3546	2689	0012081	0208	15017								
		OBS	0150	1235	35456	2689			15017								
		STD	0200	1219	3547	2694	0011782	0268	15020								
		OBS	0200	1219	35473	2694			15020								
		OBS	0230	1219	35492	2695			15025								
		STD	0250	1196	3544	2696	0011711	0327	15020								
		OBS	0250	1196	35442	2696			15020								
		STD	0300	0967	3508	2709	0010464	0382	14942								
		OBS	0300	0967	35080	2709			14942								
		OBS	0332	0941	35130	2717			14938								
		STD	0400	0748	3489	2728	0008660	0478	14873								
		OBS	0400	0748	34890	2728			14873								
		OBS	0446	0679	34923	2741			14855								
		OBS	0465	0682	34985	2745			14860								
		STD	0500	0615	3496	2752	0006441	0553	14839								
		OBS	0500	0615	34960	2752			14839								
		OBS	0561	0511	34878	2759			14805								
		STD	0600	0515	3493	2762	0005496	0613	14814								
		OBS	0600	0515	34930	2762			14814								
		STD	0700	0496	3497	2768	0005085	0666	14824								
		OBS	0700	0496	34970	2768			14824								
		OBS	0770	0456	34946	2770			14818								
		STD	0800	0463	3497	2772	0004755	0715	14827								
		OBS	0800	0463	34973	2772			14827								
		STD	0900	0460	3499	2774	0004688	0762	14842								
		STD	1000	0451	3500	2775	0004640	0809	14855								
		OBS	1000	0451	34998	2775			14855								
		STD	1100	0435	3499	2776	0004604	0855	14865								
		OBS	1100	0435	34989	2776			14865								
		STD	1200	0417	3496	2776	0004688	0902	14874								
		OBS	1200	0417	3492P	2773P											
		STD	1300	0399	3495	2777	0004621	0948	14883								
		OBS	1300	0399	34950	2777			14883								
		STD	1400	0392	3496	2778	00 4547	0994	14897								
		OBS	1400	0392	34960	2778			14897								
		STD	1500	0389	3496	2779	0004590	1040	14913								
		OBS	1500	0389	34960	2779			14913								

TABLE II. Observed and interpolated oceanographic data for stations taken by USCGC EASTWIND in the Labrador Sea, 24–26 October 1968, prepared from NODC listing No. 31-1353.

REFERENCE CTRY. CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE °/10	LONGITUDE °/10	DRIFT INDICR.	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311353		EW	53469N	055410W		186	35	10	24	054	1968		040	0163	01	02			2	X4		0		0040

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		02	S10	118	044	044	4	06	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0351	3074	2447	0034698	0000	14590								
056		OBS	0000	0351	30740	2447			14590								
		STD	0010	0309	3139	2502	0029440	0032	14583								
		STD	0020	0267	3184	2542	0025707	0060	14572								
056		OBS	0025	0246	31987	2555			14566								
		STD	0030	0232	3198	2556	0024373	0085	14560								
		STD	0050	0145	3196	2560	0023933	0133	14525								
056		OBS	0051	0140	31962	2560			14523								
		STD	0075	-0030	3274	2632	0017096	0184	14460								
056		OBS	0076	-0034	32757	2633			14459								
		STD	0100	-0046	3290	2646	0015774	0225	14459								
056		OBS	0100	-0046	32903	2646			14459								
		STD	0125	-0063	3298	2653	0015106	0264	14456								
056		OBS	T0143	-0079	32997	2655			14452								

REFERENCE CTRY. CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE °/10	LONGITUDE °/10	DRIFT INDICR.	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311353		EW	5409 N	05509 W		186	45	10	24	081	1968		041	0163	01	02			2	X4		0		0041

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		02	S09	133	044	044	2	06	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0316	3231	2575	0022504	0000	14597								
083		OBS	0000	0316	32314	2575			14597								
		STD	0010	0318	3234	2577	0022332	0022	14599								
		STD	0020	0319	3236	2579	0022161	0045	14602								
083		OBS	0025	0320	32376	2580			14603								
		STD	0030	0218	3251	2599	0020269	0066	14561								
		STD	0050	-0053	3292	2647	0015639	0102	14448								
083		OBS	0051	-0061	32938	2649			14445								
		STD	0075	-0074	3312	2664	0014018	0139	14445								
083		OBS	0076	-0075	33132	2665			14445								
		STD	0100	-0099	3329	2679	0012615	0172	14440								
083		OBS	0101	-0100	33294	2679			1440								
		STD	0125	-0097	3344	2691	0011462	0202	14447								
083		OBS	0145	-0075	33563	2700			14462								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311353		EW	5431 N	05430 W		186	44	10	24	109	1968		042	0201	02	04			2	X4	4	4		0042

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		04	S10	147	065	065	3	07	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCO
		STD	0000	0300	3189	2543	0025619	0000	14584								
111		OBS	0000	0300	31885	2543			14584								
		STD	0010	0293	3193	2547	0025244	0025	14583								
		STD	0020	0285	3197	2550	0024878	0050	14582								
111		OBS	0024	0282	31985	2552			14581								
		STD	0030	0232	3225	2577	0022341	0074	14564								
111		OBS	0049	0102	32819	2632			14517								
		STD	0050	0097	3282	2632	0017127	0114	14515								
111		OBS	0073	-0005	32957	2648			14474								
		STD	0075	-0017	3297	2650	0015395	0154	14469								
111		OBS	0097	-0100	33115	2665			14436								
		STD	0100	-0088	3313	2666	0013878	0191	14443								
		STD	0125	-0013	3329	2675	0012956	0224	14484								
111		OBS	0146	0016	33398	2683			14502								
		STD	0150	0013	3342	2685	0012087	0256	14502								
111		OBS	T0185	-0014	33570	2698			14497								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311353		EW	54525N	053475W		186	43	10	24	141	1968		043	0385	04					X4		0		0043

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		04	S08	148	056	050	5	09	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCO
		STD	0000	0267	3202	2556	0024324	0000	14571								
145		OBS	0000	0267	32022	2556			14571								
		STD	0010	0286	3267	2606	0019570	0022	14590								
		STD	0020	0304	3314	2642	0016170	0040	14606								
145		OBS	0026	0315	33327	2656			14614								
		STD	0030	0322	3334	2656	0014816	0055	14618								
		STD	0050	0354	3341	2659	0014593	0085	14636								
145		OBS	0051	0356	33417	2659			14637								
		STD	0075	0257	3348	2673	0013240	0120	14599								
145		OBS	0077	0246	33499	2676			14595								
		STD	0100	0096	3377	2708	0009901	0148	14536								
145		OBS	0101	0091	33779	2709			14534								
		STD	0125	0091	3391	2720	0008806	0172	14540								
		STD	0150	0090	3406	2732	0007668	0192	14546								
145		OBS	0153	0090	34078	2733			14546								
		STD	0200	0211	3437	2748	0006206	0227	14612								
145		OBS	T0204	0220	34395	2749			14617								
		STD	0250	0311	3464	2761	0005077	0255	14667								
		STD	0300	0376	3481	2768	0004485	0279	14705								
145		OBS	0304	0380	34820	2769			14708								
		STD	0400	0400	3489	2772	0004234	0323	14733								
145		OBS	T0400	0400	34890	2772			14733								

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDEX	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311	353	EW	5517 N	05304 W		186	53	10	24	176	1968		044	3063	26	02			3	X1	2	4		0044

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		03	S10	175	056	056	8	16	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCO
		STD	0000	0576	3406	2686	0011962	0000	14729								
182		OBS	0000	0576	34062	2686			14729								
		STD	0010	0578	3406	2686	0012015	0012	14731								
		STD	0020	0579	3406	2686	0012068	0024	14733								
182		OBS	0020	0579	34056	2686			14733								
		STD	0030	0576	3407	2687	0011930	0036	14734								
182		OBS	0042	0572	34090	2689			14734								
		STD	0050	0504	3414	2701	0010618	0059	14709								
182		OBS	0063	0415	34257	2720			14675								
		STD	0075	0358	3445	2741	0006814	0080	14656								
182		OBS	0084	0329	34559	2753			14646								
		STD	0100	0338	3464	2758	0005216	0095	14654								
		STD	0125	0351	3475	2766	0004533	0108	14665								
182		OBS	0128	0353	34759	2766			14667								
		STD	0150	0367	3481	2769	0004260	0119	14677								
182		OBS	0172	0377	34846	2771			14685								
		STD	0200	0378	3486	2772	0004037	0139	14690								
		STD	0250	0379	3487	2773	0004019	0159	14699								
182		OBS	0257	0379	34876	2773			14700								
		STD	0300	0372	3488	2774	0003950	0179	14705								
182		OBS	0345	0369	34877	2774			14711								
		STD	0400	0376	3489	2774	0004015	0219	14723								
182		OBS	T0432	0378	34890	2774			14729								
		STD	0500	0378	3490	2775	0004037	0259	14740								
182		OBS	T0521	0377	34899	2775			14744								
		STD	0600	0371	3489	2775	0004103	0300	14754								
		STD	0700	0366	3488	2775	0004194	0342	14768								
182		OBS	0700	0366	34882	2775			14768								
		STD	0800	0367	3489	2775	0004227	0384	14785								
182		OBS	T0883	0367	34901	2776			14800								
		STD	0900	0367	3490	2776	0004228	0426	14802								
		STD	1000	0366	3491	2777	0004264	0468	14819								
		STD	1100	0365	3491	2777	0004299	0511	14835								
		STD	1200	0364	3492	2778	0004334	0554	14851								
		STD	1300	0363	3492	2778	0004367	0598	14868								
182		OBS	T1358	0362	34925	2779			14877								
		STD	1400	0359	3493	2779	0004375	0642	14883								
		STD	1500	0352	3493	2780	0004359	0685	14897								
		STD	1750	0334	3493	2782	0004290	0793	14932								
		STD	2000	0315	3493	2784	0004196	0900	14966								
191		OBS	T2034	0312	34935	2784			14971								
		STD	2500	0273	3493	2788	0003968	1104	15034								
191		OBS	T2569	0267	34925	2788			15043								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
3	11353	EW	5548 N	05157 W		186	51	10	25	001	1968		045	3475	33	03			2	X0		0		0045

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		03	S14	169	083	072	8	18	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH	SCO
		STD	0000	0682	3433	2694	0011280	0000	14775								
006		OBS	0000	0682	34328	2694			14775								
		STD	0010	0682	3433	2694	0011278	0011	14776								
		STD	0020	0683	3433	2694	0011285	0023	14778								
006		OBS	0023	0683	34334	2694			14779								
		STD	0030	0673	3435	2697	0011045	0034	14776								
006		OBS	0044	0653	34423	2705			14772								
		STD	0050	0568	3449	2721	0008730	0054	14739								
006		OBS	0068	0399	34639	2752			14675								
		STD	0075	0387	3468	2757	0005366	0071	14671								
006		OBS	0090	0369	34747	2764			14667								
		STD	0100	0370	3477	2766	0004545	0084	14669								
		STD	0125	0371	3481	2769	0004277	0095	14674								
006		OBS	0138	0372	34822	2770			14677								
		STD	0150	0374	3483	2770	0004179	0105	14680								
006		OBS	T0183	0376	34853	2772			14687								
		STD	0200	0373	3485	2772	0004034	0126	14688								
		STD	0250	0366	3486	2773	0003971	0146	14694								
006		OBS	0277	0364	34861	2773			14697								
		STD	0300	0364	3487	2774	0003913	0165	14701								
006		OBS	0370	0362	34878	2775			14712								
		STD	0400	0360	3488	2775	0003899	0204	14716								
006		OBS	T0465	0356	34879	2776			14725								
		STD	0500	0355	3491	2778	0003694	0242	14731								
006		OBS	T0559	0353	34942	2781			14740								
		STD	0600	0351	3492	2779	0003662	0279	14746								
		STD	0700	0348	3488	2777	0004011	0318	14761								
006		OBS	0754	0347	34864	2775			14769								
		STD	0800	0347	3487	2775	0004197	0359	14777								
		STD	0900	0348	3487	2776	0004261	0401	14794								
006		OBS	T0936	0348	34869	2776			14800								
		STD	1000	0350	3488	2776	0004273	0444	14811								
		STD	1100	0352	3489	2777	0004307	0486	14829								
		STD	1200	0354	3490	2778	0004341	0530	14847								
		STD	1300	0356	3490	2777	0004451	0574	14865								
		STD	1400	0359	3491	2778	0004487	0618	14883								
006		OBS	T1460	0360	34916	2778			14894								
		STD	1500	0360	3492	2779	0004513	0663	14900								
		STD	1750	0357	3493	2780	0004601	0777	14942								
006		OBS	T1928	0350	34937	2781			14969								
		STD	2000	0345	3494	2782	0004555	0892	14979								
016		OBS	T2432	0313	34941	2785			15039								
		STD	2500	0290	3494	2787	0004136	1109	15041								
016		OBS	2587	0264	34937	2789			15045								
		STD	3000	0194	3492	2793	0003168	1292	15086								
016		OBS	T3254	0194	34902	2792			15130								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATA INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311	353	EW	56235N	050550W		186	60	10	25	068	1968		046	3658	36					X1		7		0046

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		03	S20	166	083	072	7	19	

MESSENGR TIME of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOO
		STD	0000	0690	3434	2693	0011287	0000	14778								
073		OBS	0000	0690	34341	2693			14778								
		STD	0010	0681	3437	2697	0010969	0011	14776								
		STD	0020	0674	3440	2700	0010670	0022	14776								
073		OBS	0026	0670	34422	2703			14775								
		STD	0030	0668	3443	2703	0010388	0032	14775								
		STD	0050	0660	3449	2709	0009863	0053	14776								
073		OBS	0052	0659	34499	2710			14776								
		STD	0075	0406	3465	2752	0005781	0072	14679								
073		OBS	0078	0388	34659	2755			14672								
		STD	0100	0378	3471	2760	0005074	0086	14672								
073		OBS	0103	0377	34718	2761			14672								
		STD	0125	0387	3478	2765	0004656	0098	14681								
		STD	0150	0397	3482	2767	0004490	0109	14690								
073		OBS	0156	0400	34828	2767			14692								
		STD	0200	0375	3483	2770	0004234	0131	14689								
073		OBS	0209	0371	34831	2770			14689								
		STD	0250	0368	3485	2772	0004059	0152	14694								
		STD	0300	0364	3486	2773	0003988	0172	14701								
073		OBS	0314	0363	34863	2774			14703								
		STD	0400	0353	3486	2775	0003939	0212	14713								
073		OBS	0420	0352	34863	2775			14716								
		STD	0500	0351	3486	2775	0003990	0251	14728								
073		OBS	T0526	0350	34864	2775			14732								
		STD	0600	0349	3487	2775	0004039	0292	14745								
073		OBS	T0632	0349	34868	2775			14750								
		STD	0700	0348	3487	2776	0004086	0332	14761								
		STD	0800	0347	3487	2776	0004153	0373	14777								
073		OBS	0847	0346	34872	2776			14784								
		STD	0900	0347	3487	2776	0004223	0415	14794								
		STD	1000	0348	3487	2776	0004315	0458	14811								
073		OBS	T1061	0349	34872	2776			14821								
		STD	1100	0350	3488	2776	0004355	0501	14828								
		STD	1200	0351	3489	2777	0004380	0545	14846								
		STD	1300	0353	3490	2778	0004404	0589	14863								
		STD	1400	0354	3490	2778	0004503	0633	14881								
		STD	1500	0356	3491	2778	0004528	0679	14898								
073		OBS	T1600	0357	34919	2779			14916								
		STD	1750	0354	3493	2780	0004586	0792	14940								
		STD	2000	0348	3494	2781	0004618	0908	14980								
083		OBS	T2008	0348	34938	2781			14982								
		STD	2500	0313	3495	2785	0004414	1133	15051								
083		OBS	T2523	0311	34947	2785			15054								
		STD	3000	0277	3493	2787	0004293	1351	15122								
083		OBS	3040	0272	34932	2788			15127								
083		OBS	T3552	0173	34903	2794			15173								
083		OBS	T3629	0162													

REFERENCE Ctry. Code	REFERENCE ID. No.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311353		EW	5706 N	04951 W		185	79	10	25	139	1968		047	3658	35	34			2	X2	6	8		0047

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		35	S15	155	078	072	8	18	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	ΣΔD DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SOC
		STD	0000	0657	3441	2703	0010349	0000	14766								
143		OBS	0000	0657	34410	2703			14766								
		STD	0010	0657	3441	2703	0010361	0010	14768								
		STD	0020	0658	3441	2704	0010366	0021	14769								
143		OBS	0024	0658	34413	2703			14770								
		STD	0030	0657	3443	2705	0010239	0031	14771								
143		OBS	0046	0653	34483	2710			14773								
		STD	0050	0592	3449	2718	0009017	0050	14749								
143		OBS	0070	0399	34605	2749			14674								
		STD	0075	0388	3472	2760	0005075	0068	14672								
143		OBS	0087	0378	34768	2765			14671								
143		OBS	0093	0381	34677	2757			14672								
		STD	0100	0381	3469	2758	0005256	0081	14673								
		STD	0125	0382	3474	2762	0004911	0094	14678								
		STD	0150	0383	3478	2765	0004642	0105	14683								
143		OBS	T0187	0384	34827	2769			14690								
		STD	0200	0384	3484	2770	0004252	0128	14693								
		STD	0250	0385	3489	2774	0003930	0148	14702								
143		OBS	0279	0385	34908	2775			14707								
		STD	0300	0381	3490	2775	0003863	0168	14709								
143		OBS	0371	0373	34887	2775			14717								
		STD	0400	0373	3489	2774	0003976	0207	14722								
143		OBS	T0461	0371	34883	2774			14731								
		STD	0500	0367	3488	2775	0004031	0247	14736								
143		OBS	T0556	0362	34880	2775			14743								
		STD	0600	0361	3488	2775	0004068	0287	14750								
		STD	0700	0359	3488	2775	0004132	0328	14765								
143		OBS	0740	0358	34878	2775			14772								
		STD	0800	0357	3488	2775	0004213	0370	14781								
		STD	0900	0355	3488	2775	0004286	0413	14797								
143		OBS	T0922	0354	34875	2776			14800								
		STD	1000	0355	3488	2776	0004337	0456	14814								
		STD	1100	0356	3489	2777	0004360	0499	14831								
		STD	1200	0358	3489	2776	0004457	0543	14848								
		STD	1300	0359	3490	2777	0004480	0588	14866								
		STD	1400	0360	3490	2777	0004578	0633	14883								
143		OBS	T1404	0360	34903	2777			14884								
		STD	1500	0359	3491	2778	0004573	0679	14900								
		STD	1750	0353	3492	2779	0004621	0794	14940								
152		OBS	T1944	0347	34922	2780			14970								
		STD	2000	0345	3492	2780	0004683	0910	14979								
152		OBS	T2454	0321	34935	2784			15046								
		STD	2500	0319	3494	2784	0004587	1142	15054								
152		OBS	2968	0281	34933	2787			15118								
		STD	3000	0277													
152		OBS	T3481	0196													

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
	311353	EW	5737 N	04848 W		185	78	10	25	205	1968		048	3475	34	03			3	X1	6	7		0048

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		36	S10	168	050	033	8	18	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOD
		STD	0000	0608	3447	2714	0009307	0000	14747								
	210	OBS	0000	0608	34468	2714			14747								
		STD	0010	0607	3446	2714	0009346	0009	14748								
		STD	0020	0605	3446	2714	0009380	0019	14749								
	210	OBS	0028	0602	34453	2714			14749								
		STD	0030	0601	3446	2715	0009321	0028	14749								
		STD	0050	0589	3454	2722	0008607	0046	14749								
	210	OBS	0055	0586	34572	2725			14749								
		STD	0075	0416	3474	2758	0005207	0063	14684								
	210	OBS	0082	0382	34784	2765			14672								
		STD	0100	0378	3482	2769	0004248	0075	14673								
	210	OBS	0109	0376	34831	2770			14674								
		STD	0125	0372	3484	2771	0004061	0085	14675								
		STD	0150	0368	3484	2771	0004044	0096	14678								
	210	OBS	0164	0366	3494P	2779P											
		STD	0200	0364	3485	2773	0003974	0116	14684								
	210	OBS	T0219	0363	34857	2773			14687								
		STD	0250	0363	3486	2773	0003930	0135	14692								
		STD	0300	0362	3486	2774	0003940	0155	14700								
	210	OBS	0328	0362	34867	2774			14705								
		STD	0400	0355	3486	2774	0003982	0195	14714								
	210	OBS	0436	0352	34859	2774			14718								
		STD	0500	0349	3486	2775	0004004	0235	14728								
	210	OBS	T0545	0348	34863	2775			14735								
		STD	0600	0347	3486	2775	0004066	0275	14743								
	210	OBS	0652	0346	34856	2775			14752								
		STD	0700	0346	3486	2775	0004156	0316	14759								
		STD	0800	0345	3486	2775	0004211	0358	14776								
	210	OBS	0869	0344	34860	2775			14787								
		STD	0900	0344	3486	2775	0004285	0400	14792								
		STD	1000	0344	3486	2775	0004387	0444	14809								
	210	OBS	T1084	0344	34853	2775			14823								
		STD	1100	0344	3486	2775	0004478	0488	14826								
		STD	1200	0347	3487	2775	0004515	0533	14844								
		STD	1300	0350	3487	2776	0004559	0578	14862								
		STD	1400	0352	3488	2776	0004596	0624	14880								
		STD	1500	0355	3489	2777	0004635	0670	14898								
	210	OBS	T1628	0358	34907	2778			14921								
		STD	1750	0355	3492	2779	0004647	0786	14941								
	219	OBS	T1975	0347	34930	2781			14976								
		STD	2000	0346	3493	2781	0004646	0903	14979								
	219	OBS	T2474	0311	34925	2784			15046								
		STD	2500	0310	3492	2783	0004565	1133	15050								
	219	OBS	T2976	0257	34917	2788			15109								
		STD	3000	0253	3492	2788	0004056	1348	15112								
	219	OBS	T3405	0165	34906	2794			15144								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDEX	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NOOC STATION NUMBER
3	11353	EW	5810 N	04758 W		185	87	10	26	022	1968		049	3383	33	03			2	X0		0		0049

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		03	S10	194	044	044	8	18	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	
		STD	0000	0594	3459	2726	0008203	0000	14743								
026		OBS	0000	0594	34593	2726			14743								
		STD	0010	0597	3459	2725	0008298	0008	14746								
		STD	0020	0599	3458	2724	0008381	0017	14748								
026		OBS	0020	0599	34581	2724			14748								
		STD	0030	0600	3459	2725	0008333	0025	14750								
026		OBS	0042	0600	34592	2725			14752								
		STD	0050	0600	3459	2725	0008340	0042	14754								
026		OBS	0062	0599	34595	2726			14755								
		STD	0075	0609	3459	2724	0008481	0063	14761								
026		OBS	0083	0615	34593	2723			14765								
		STD	0100	0508	3470	2745	0006527	0081	14726								
		STD	0125	0405	3481	2765	0004619	0095	14689								
026		OBS	0137	0379	34840	2770			14680								
		STD	0150	0381	3485	2771	0004099	0106	14683								
026		OBS	T0169	0384	34867	2772			14688								
		STD	0200	0382	3488	2773	0003933	0126	14692								
		STD	0250	0380	3489	2774	0003876	0146	14700								
026		OBS	0258	0379	34896	2775			14701								
		STD	0300	0376	3490	2775	0003841	0165	14707								
026		OBS	0347	0374	34895	2775			14713								
		STD	0400	0376	3489	2775	0003953	0204	14723								
026		OBS	T0437	0377	34892	2775			14730								
		STD	0500	0372	3489	2775	0004002	0244	14738								
026		OBS	T0531	0369	34893	2775			14742								
		STD	0600	0363	3488	2775	0004090	0284	14751								
		STD	0700	0356	3487	2775	0004173	0326	14764								
026		OBS	0718	0355	34869	2775			14767								
		STD	0800	0354	3487	2775	0004231	0368	14780								
		STD	0900	0352	3487	2775	0004297	0410	14796								
026		OBS	0912	0352	34873	2776			14798								
		STD	1000	0354	3489	2777	0004256	0453	14814								
		STD	1100	0357	3491	2778	0004222	0495	14832								
		STD	1200	0360	3492	2779	0004263	0538	14850								
		STD	1300	0362	3494	2780	0004232	0580	14868								
026		OBS	T1398	0365	34946	2780			14886								
		STD	1400	0365	3495	2780	0004304	0623	14886								
		STD	1500	0360	3494	2780	0004337	0666	14901								
		STD	1750	0346	3494	2781	0004382	0775	14937								
		STD	2000	0331	3494	2783	0004405	0885	14973								
037		OBS	2070	0326	34934	2783			14983								
		STD	2500	0297	3494	2786	0004235	1101	15044								
037		OBS	2590	0288	34942	2787			15056								
		STD	3000	0235	3492	2790	0003761	1301	15104								
037		OBS	T3110	0213	34914	2791			15114								
037		OBS	T3350	0152	34908	2796			15129								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDEX	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311	353	EW	5828 N	04718 W		185	87	10	26	071	1968		050	2853	28					X1	6	7		0050

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		16	S07	198	044	033	7	17	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH
		STD	0000	0536	3434	2713	0009427	0000	14716							
076		OBS	0000	0536	34339	2713			14716							
		STD	0010	0544	3438	2715	0009223	0009	14722							
		STD	0020	0553	3443	2718	0008965	0018	14728							
076		OBS	0024	0557	34452	2719			14730							
		STD	0030	0567	3450	2722	0008617	0027	14736							
076		OBS	0049	0582	34628	2730			14747							
		STD	0050	0582	3463	2731	0007844	0044	14747							
076		OBS	0073	0569	34716	2739			14747							
		STD	0075	0554	3473	2742	0006803	0062	14741							
076		OBS	0097	0431	34831	2764			14695							
		STD	0100	0430	3484	2765	0004627	0076	14696							
		STD	0125	0422	3488	2769	0004270	0087	14697							
076		OBS	0146	0418	34899	2771			14699							
		STD	0150	0418	3490	2771	0004106	0098	14700							
076		OBS	0196	0420	34919	2772			14708							
		STD	0200	0420	3492	2772	0004042	0118	14709							
		STD	0250	0421	3490	2770	0004253	0139	14717							
076		OBS	0294	0422	34880	2769			14725							
		STD	0300	0420	3488	2769	0004412	0161	14725							
076		OBS	0393	0399	34921	2775			14732							
		STD	0400	0399	3492	2775	0003992	0203	14733							
076		OBS	T0492	0398	34924	2775			14748							
		STD	0500	0397	3492	2775	0004073	0243	14749							
076		OBS	T0593	0385	34916	2776			14759							
		STD	0600	0384	3492	2776	0004053	0284	14760							
		STD	0700	0378	3491	2776	0004121	0324	14774							
076		OBS	0794	0372	34904	2776			14787							
		STD	0800	0372	3490	2776	0004186	0366	14788							
		STD	0900	0366	3491	2777	0004152	0408	14802							
076		OBS	T0993	0362	34918	2778			14816							
		STD	1000	0362	3492	2778	0004123	0449	14817							
		STD	1100	0362	3492	2778	0004203	0491	14834							
		STD	1200	0361	3492	2778	0004280	0533	14850							
		STD	1300	0361	3492	2778	0004358	0576	14867							
		STD	1400	0360	3492	2778	0004435	0620	14884							
076		OBS	T1470	0360	34923	2779			14895							
		STD	1500	0358	3493	2780	0004414	0665	14900							
		STD	1750	0340	3495	2783	0004230	0773	14935							
085		OBS	T1956	0321	34961	2786			14962							
		STD	2000	0320	3496	2786	0004075	0876	14969							
085		OBS	T2455	0263	34928	2788			15022							
		STD	2500	0253	3492	2788	0003762	1072	15025							
085		OBS	T2758	0182	34904	2793			15039							

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311	353	EW	58512N	046300W		185	86	10	26	116	1968		051	2560	25					X1	6	6		0051

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		14	S05	183	044	033	8	16	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SOUND
		STD	0000	0578	3467	2734	0007458	0000	14738								
121		OBS	0000	0578	34667	2734			14738								
		STD	0010	0581	3467	2733	0007508	0007	14740								
		STD	0020	0584	3467	2733	0007557	0015	14743								
121		OBS	0025	0585	34667	2733			14745								
		STD	0030	0586	3467	2733	0007570	0023	14746								
		STD	0050	0589	3469	2734	0007484	0038	14750								
121		OBS	0051	0589	34696	2735			14751								
		STD	0075	0601	3480	2742	0006840	0056	14761								
121		OBS	0076	0601	34806	2742			14761								
		STD	0100	0572	3496	2758	0005333	0071	14755								
121		OBS	0101	0571	34964	2758			14755								
		STD	0125	0524	3497	2764	0004752	0083	14740								
		STD	0150	0482	3497	2769	0004288	0095	14727								
121		OBS	0152	0479	34968	2770			14726								
		STD	0200	0417	3491	2771	0004099	0116	14707								
121		OBS	T0202	0415	34903	2771			14707								
		STD	0250	0415	3491	2772	0004098	0136	14715								
		STD	0300	0415	3492	2773	0004074	0157	14723								
121		OBS	0301	0415	34924	2773			14724								
		STD	0400	0408	3496	2776	0003831	0196	14737								
121		OBS	0403	0408	34957	2777			14738								
		STD	0500	0405	3493	2775	0004066	0236	14752								
121		OBS	T0503	0405	34932	2775			14753								
		STD	0600	0399	3493	2775	0004119	0276	14766								
121		OBS	T0603	0399	34928	2775			14767								
		STD	0700	0378	3492	2777	0004046	0317	14774								
		STD	0800	0366	3491	2777	0004058	0358	14785								
121		OBS	0800	0366	34912	2777			14785								
		STD	0900	0367	3491	2777	0004150	0399	14802								
121		OBS	T0996	0367	34912	2777			14819								
		STD	1000	0367	3491	2777	0004241	0441	14819								
		STD	1100	0365	3492	2778	0004251	0483	14835								
		STD	1200	0362	3493	2779	0004247	0526	14851								
		STD	1300	0358	3493	2780	0004229	0568	14866								
		STD	1400	0353	3494	2781	0004204	0610	14881								
121		OBS	T1468	0349	34944	2782			14891								
		STD	1500	0347	3495	2782	0004127	0652	14895								
		STD	1750	0328	3496	2785	0004000	0754	14930								
		STD	2000	0299	3496	2788	0003794	0851	14960								
129		OBS	2030	0295	34962	2788			14963								
		STD	2500	0215	3491	2791	0003315	1029	15009								
129		OBS	T2540	0207	34908	2791			15012								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR,1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
	311353	EW	5907 N	04601 W		185	96	10	26	154	1968		052	2423	24					X6	6	8		0052

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		14	S05	188	067	039	8	16	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	SiO4-Si µg-at/l	pH
		STD	0000	0592	3474	2738	0007080	0000	14744							
159		OBS	0000	0592	34740	2738			14744							
		STD	0010	0594	3474	2738	0007113	0007	14746							
		STD	0020	0595	3474	2737	0007146	0014	14749							
159		OBS	0025	0596	34740	2737			14750							
		STD	0030	0595	3474	2737	0007158	0021	14750							
		STD	0050	0593	3474	2738	0007146	0036	14753							
159		OBS	0050	0593	34742	2738			14753							
		STD	0075	0600	3479	2741	0006901	0053	14760							
159		OBS	0075	0600	34791	2741			14760							
		STD	0100	0619	3484	2742	0006815	0070	14773							
159		OBS	0100	0619	34839	2742			14773							
		STD	0125	0617	3490	2747	0006371	0087	14777							
159		OBS	0149	0613	34955	2752			14780							
		STD	0150	0613	3496	2753	0005910	0102	14780							
159		OBS	T0199	0600	35053	2762			14784							
		STD	0200	0599	3505	2761	0005135	0130	14784							
		STD	0250	0560	3504	2766	0004793	0155	14776							
159		OBS	0295	0531	35023	2768			14772							
		STD	0300	0529	3502	2768	0004630	0178	14772							
159		OBS	0392	0491	35000	2771			14771							
		STD	0400	0489	3500	2771	0004423	0223	14772							
159		OBS	T0489	0460	34974	2772			14774							
		STD	0500	0455	3497	2772	0004360	0267	14774							
159		OBS	T0588	0426	34948	2774			14776							
		STD	0600	0426	3495	2774	0004276	0311	14778							
		STD	0700	0425	3498	2777	0004143	0353	14795							
159		OBS	0787	0419	34986	2778			14807							
		STD	0800	0417	3498	2777	0004148	0394	14808							
		STD	0900	0401	3495	2777	0004275	0436	14817							
159		OBS	T0985	0389	34931	2776			14826							
		STD	1000	0388	3493	2777	0004351	0479	14828							
		STD	1100	0380	3494	2778	0004314	0523	14842							
		STD	1200	0372	3494	2779	0004281	0566	14855							
		STD	1300	0364	3494	2780	0004245	0608	14869							
		STD	1400	0356	3495	2781	0004198	0650	14882							
159		OBS	T1444	0352	34946	2781			14888							
		STD	1500	0348	3495	2782	0004162	0692	14896							
		STD	1750	0328	3495	2784	0004073	0795	14930							
166		OBS	1983	0304	34953	2787			14959							
		STD	2000	0302	3495	2786	0003907	0895	14961							
166		OBS	T2382	0251	34931	2790			15004							

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311353		EW	5922 N	04525 W		185	95	10	26	192	1968		053	1829	14					X2	6	8		0053

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		12	S08	173	039	033	8	15	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCO
		STD	0000	0503	3468	2744	0006532	0000	14707								
198		OBS	0000	0503	34676	2744			14707								
		STD	0010	0511	3471	2745	0006377	0006	14713								
		STD	0020	0522	3474	2746	0006289	0013	14719								
198		OBS	0022	0524	34751	2747			14720								
		STD	0030	0537	3479	2749	0006098	0019	14728								
198		OBS	0045	0558	34842	2750			14739								
		STD	0050	0566	3486	2751	0005940	0031	14744								
198		OBS	0067	0584	34890	2751			14754								
		STD	0075	0585	3490	2751	0005901	0046	14756								
198		OBS	0088	0586	3491	2752			14758								
		STD	0100	0592	3492	2752	0005890	0061	14763								
		STD	0125	0599	3494	2752	0005877	0075	14770								
198		OBS	0131	0600	3494	2753			14772								
		STD	0150	0597	3494	2753	0005858	0090	14774								
198		OBS	T0172	0592	3493	2753			14775								
		STD	0200	0576	3492	2754	0005816	0119	14773								
		STD	0250	0552	3490	2756	0005731	0148	14771								
198		OBS	0252	0551	3490	2756			14771								
		STD	0300	0530	3490	2758	0005536	0176	14771								
198		OBS	0330	0525	3490	2759			14773								
		STD	0400	0539	3496	2762	0005291	0230	14791								
198		OBS	T0407	0540	3497	2763			14793								
198		OBS	0432	0538	3496	2762			14796								
		STD	0500	0525	3497	2764	0005218	0283	14802								
203		OBS	0517	0522	3497	2765			14804								
		STD	0600	0511	3498	2766	0005113	0334	14813								
203		OBS	T0680	0500	3498	2768			14822								
		STD	0700	0497	3498	2768	0005026	0385	14824								
		STD	0800	0483	3498	2770	0004994	0435	14835								
		STD	0900	0467	3497	2771	0004939	0485	14845								
		STD	1000	0451	3497	2772	0004880	0534	14855								
		STD	1100	0433	3496	2774	0004782	0582	14864								
203		OBS	T1115	0430	3496	2774			14866								
		STD	1200	0414	3495	2775	0004718	0630	14873								
		STD	1300	0393	3495	2778	0004543	0676	14881								
203		OBS	T1399	0372	34940	2779			14889								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311353		EW	59403N	045024W		185	95	10	26	229	1968		054	0128	01	11			3	X0		0		0054

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		11	S05	188	017	017	8	05	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10⁷	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCO
		STD	0000	0028	3174	2549	0024997	0000	14461								
231		OBS	0000	0028	31743	2549			14461								
		STD	0010	0030	3178	2552	0024719	0025	14464								
		STD	0020	0032	3181	2554	0024495	0049	14467								
231		OBS	0026	0034	31833	2556			14469								
		STD	0030	0035	3185	2557	0024201	0074	14470								
		STD	0050	0041	3194	2564	0023566	0122	14478								
231		OBS	0052	0042	31945	2565			14478								
		STD	0075	0068	3226	2589	0021225	0178	14498								
231		OBS	0077	0070	32287	2591			14500								
		STD	0100	0085	3257	2613	0018955	0228	14514								
231		OBS	T0102	0086	32588	2614			14515								

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